

# Owner's Operating Service Instruction Manual

10¢

**Model Nos.**  
**136-520A**  
**136-525A**

- **ASSEMBLY**
- **OPERATION**
- **REPAIR PARTS**

**26" RIDING MOWERS**

# IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

## SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachment(s) and stop engine before leaving operator position.
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
  - (1) Mow only in daylight or in good artificial light.
  - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
  - (3) Shut engine off when removing grass catcher and/or unclogging chute.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
25. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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## ASSEMBLY



### WARNING

The grass catcher is a part of the riding mower. The riding mower should not be operated without the grass catcher in place.



### NOTE

Under normal usage the grass catcher is subject to wear, and should be checked periodically. Be sure any replacement complies with the mower manufacturers recommendation.



### IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage and repair the damage before restarting and operating the mower.

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

The steering wheel, seat, battery (electric start models only) and grass catcher must be assembled as outlined in this section of the owner's guide.

1. Remove the riding mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Place the steering wheel over the steering shaft. See figure 2.
3. Secure with the cupped washer and the 5/16" nut. See figure 1.
4. Press the cap on the steering wheel by hand.



### NOTE

Install the washer with the cupped side down.

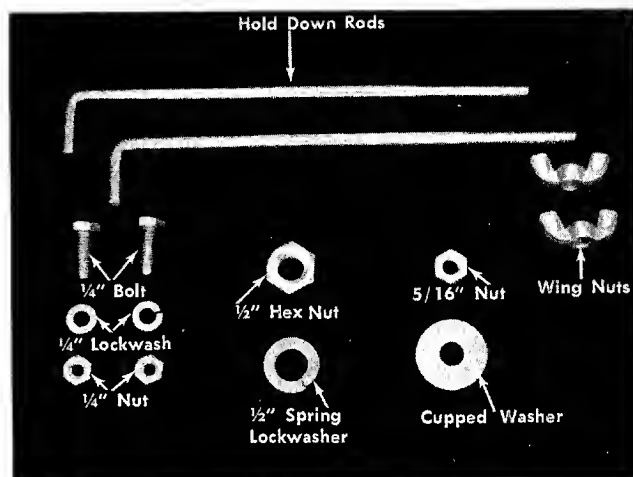


FIGURE 1.

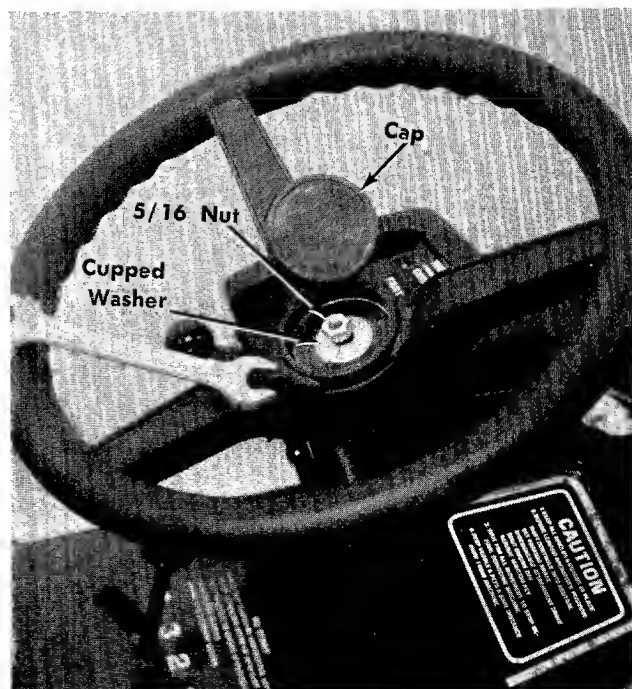


FIGURE 2.

5. Place the seat bolt through one of the holes in the seat spring. (See figure 3)
6. Secure with  $\frac{1}{2}$ " spring lockwasher and  $\frac{1}{2}$ " hex nut.

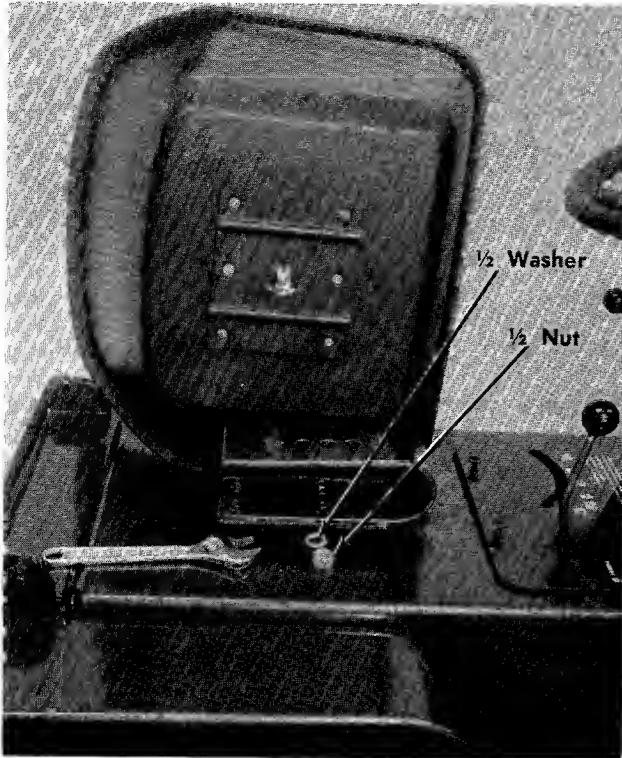


FIGURE 3.

## BATTERY INFORMATION



### WARNING

- A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.
- B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.
- C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.
- D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.



### DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

- A. Keep sparks, flame, cigarettes away.
- B. Hydrogen gas is generated during charging and discharging.
- C. Ventilate when charging or using in enclosed space.
- D. When using a charger—to avoid sparks—NEVER connect or disconnect charger clips to battery while charger is turned on.
- E. Always shield eyes, protect skin and clothing when working near batteries.

### A. Activating the Battery

1. Place the battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.
2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to be  $\frac{3}{8}$ " above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes to  $\frac{1}{2}$  hour. Add additional acid if necessary to bring it up to the proper level.
4. Replace the vent caps.
5. The battery can now be charged after the 20 minutes setting period. Battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265-1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.



### CAUTION

After battery has been in service, add only approved water. DO NOT ADD ACID.

### B. To Install Battery

To install the battery in this unit, refer to page 5.

### C. Maintenance

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is 9/16" above separator plates. Add only distilled water or good quality drinking water. **NEVER** add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

### D. Storage

1. Charge battery using normal methods. **NEVER** store discharged battery as it will not recover.
2. Store in cold, dry place.
3. Recharge battery whenever the specific gravity is less than 1.225 before returning to service or every two months, whichever occurs first.

### E. Common Causes for Battery Failure Are:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



#### **NOTE**

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

#### **LIMITED WARRANTY**

For ninety (90) days of original retail purchase, the battery carries a limited warranty against faulty material or workmanship by the battery manufacturer.

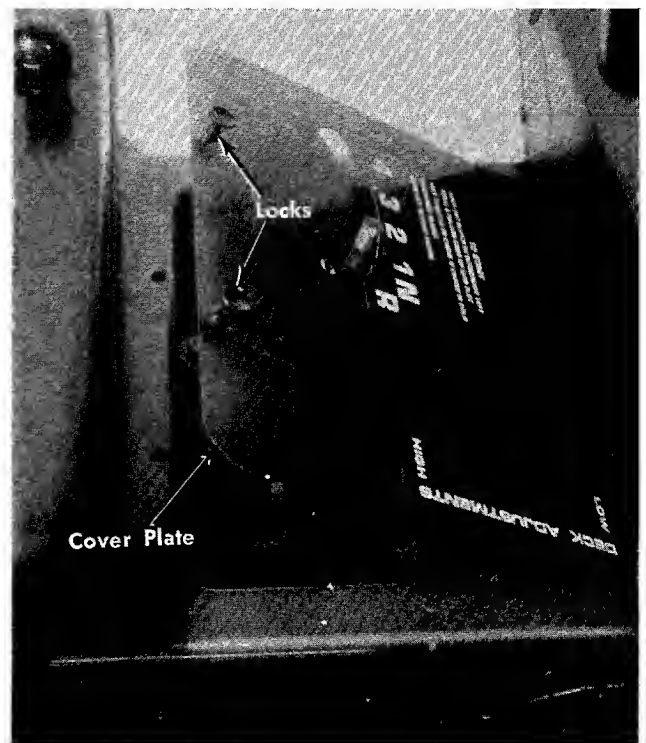
## INSTALLING THE BATTERY

1. Remove the cover plate in front of the seat. (See figure 4).
2. Place the battery, with the terminals to the front in the battery case. (Positive terminal to the right)
3. Insert one end of the rubber tubing into the manifold vent on the battery and place the other end through the clamp next to the battery case and down through the frame. See figure 5.



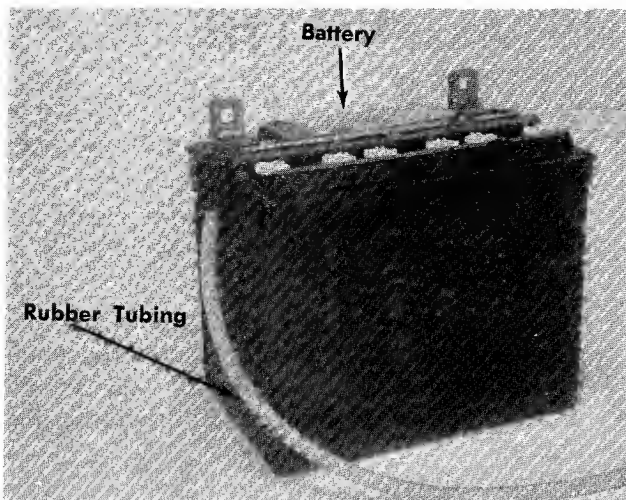
#### **NOTE**

The vented battery allows gases or liquid from the battery to be carried to the rear of the mower through the rubber tubing.



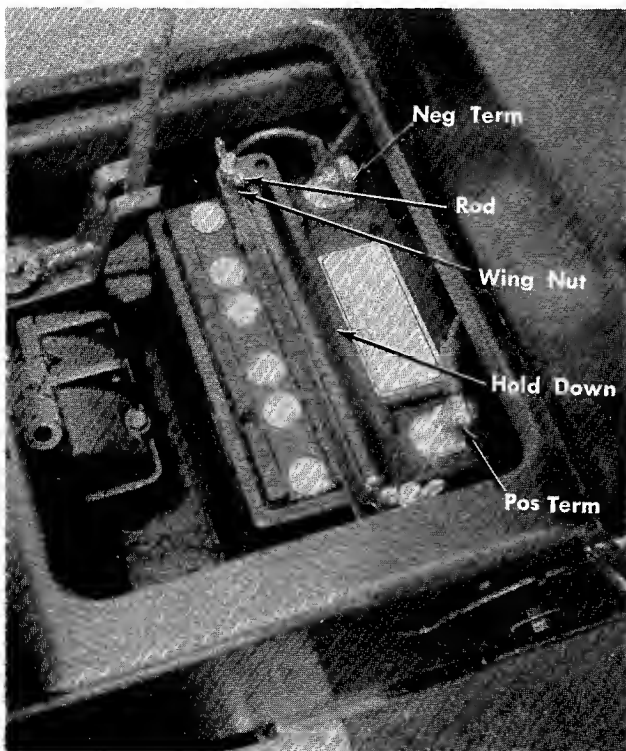
**FIGURE 4.**

4. Hook the hold down rods under the battery case and place the hold down over the manifold of the battery as shown in figure 6.
5. Secure the hold down with the wing nuts.
6. Attach the positive cable (from the starter solenoid) and the small wire (from the ammeter) to the positive battery terminal with the 1/4" bolt, lockwasher and nut in the assembly pack.



**FIGURE 5.**

7. Attach the negative cable, grounded, to the negative battery terminal with the  $\frac{1}{4}$ " bolt, lockwasher and nut in the assembly pack.



**FIGURE 6.**

#### **TIRE PRESSURE**

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

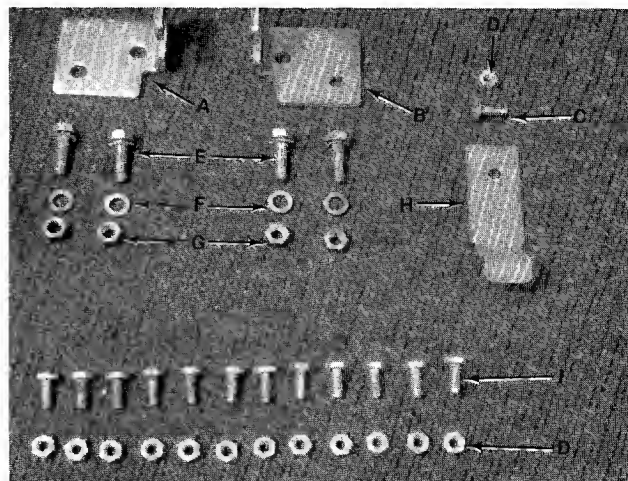
## **ASSEMBLY OF GRASS CATCHER**

#### **Tools Required:**

Two  $\frac{7}{16}$ " Wrenches and  
Two  $\frac{1}{2}$ " Wrenches.

List of Contents in Hardware Pack: See figure 7.

- A (1) Hinge—Right Hand
- B (1) Hinge—Left Hand
- C (1) Carriage Bolt  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Lg.
- D (13) Hex Locknuts  $\frac{1}{4}$ -20 Thd.
- E (4) Hex Sems Bolts  $\frac{5}{16}$ -18 x 1.00" Lg.
- F (4) Lockwashers  $\frac{5}{16}$ " I.D.
- G (4) Hex Nuts  $\frac{5}{16}$ -18 Thd.
- H (1) Switch Actuator Brkt.
- I (12) Hex Bolts  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " Lg.



**FIGURE 7.**

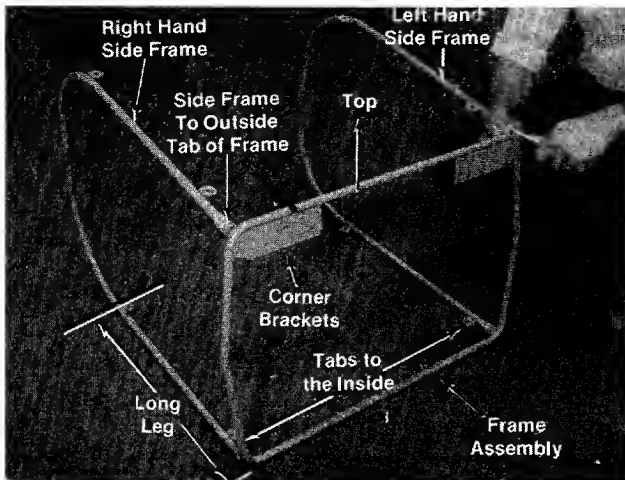
1. Place the frame assembly with corner brackets up as shown in figure 8.
2. Fasten the right and left hand frame sides to frame with four hex bolts (I) and hex locknuts (D) provided. See figure 8. Tighten nuts and bolts with  $\frac{7}{16}$ " wrenches.



Right and left hand side frames are determined by the long leg of side frame to the bottom and tabs to the inside. Also when assembling side frames to frame, the side frames are to the outside of frame assembly tabs. See figure 8.

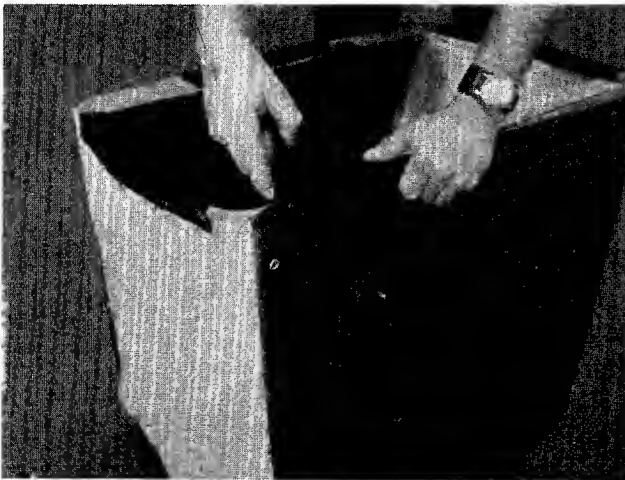


Use two 7/16" wrenches to tighten. See figure 10.



**FIGURE 8.**

3. Slip the grass bag over the catcher frame. Snap the plastic edge of grass bag over frame. See figure 9.



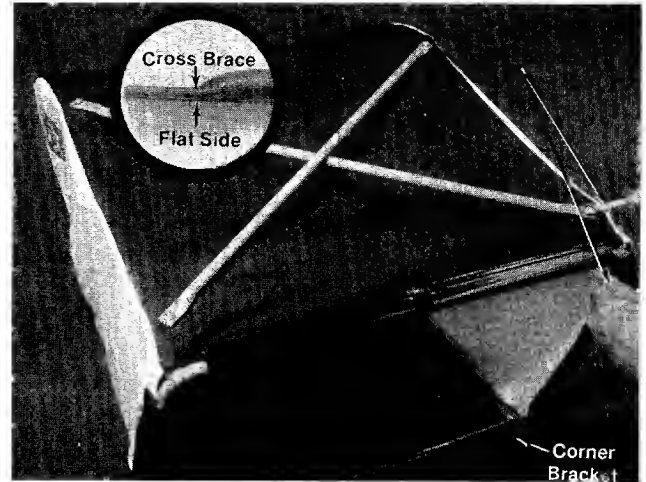
**FIGURE 9.**

4. Turn the grass catcher over (so that corner brackets are down) and place the cross braces in position as shown in figure 10.



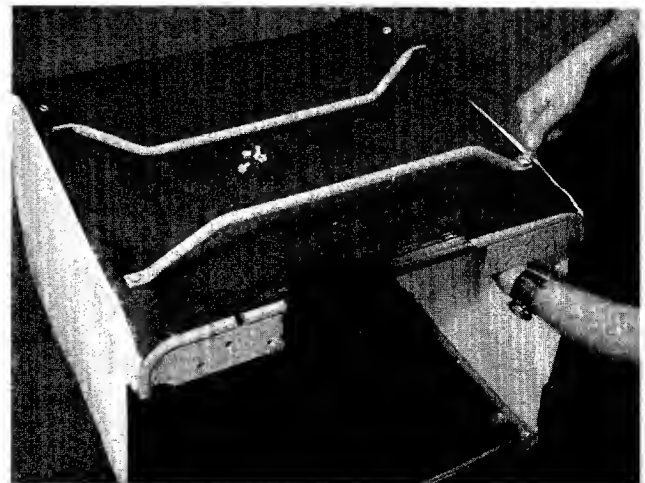
**NOTE**

One brace will have the flat ends down and the other will have the flat ends up. Secure braces with hex bolts (I) and hex nuts (D). Bolts go down through brace, bag eyelet and frame.



**FIGURE 10.**

5. Turn the grass catcher over, top side up. Place two handles in position and secure with four hex bolts (I) and locknuts (D) provided. See figure 11. Bolts go down through handle, bag eyelet and frame. Tighten with two 7/16" wrenches.



**FIGURE 11.**

6. Place the switch actuator bracket (H) in position (left hand side) as shown in figure 12. Secure with carriage bolt (C) and locknut (D).
7. Place dust cover in position on top front of catcher. Place right and left hand hinges in position and secure with hex sems bolts (E), lockwashers (F) and hex nuts (G) provided. See figure 13.

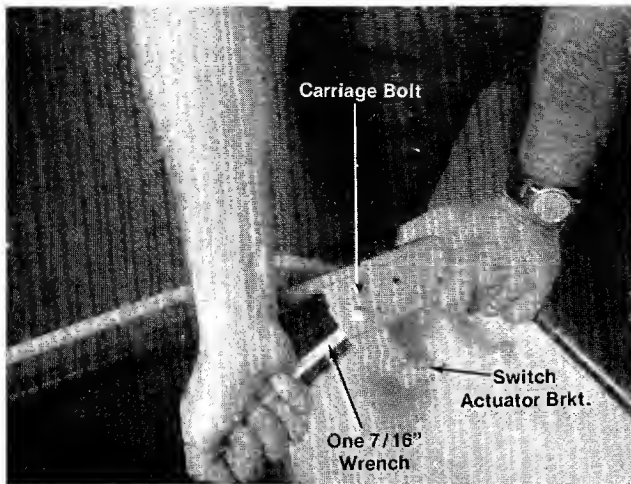


FIGURE 12.



**NOTE**

Hinges (A & B) are stamped R and L. See figure 13. Two ½" wrenches are required. Do not tighten bolts and nut at this time.

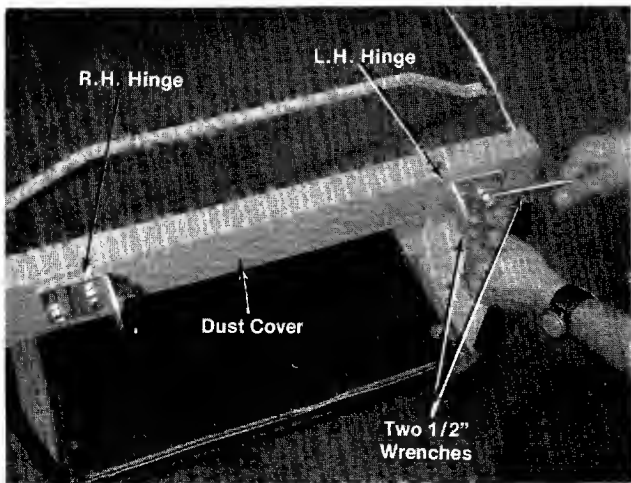


FIGURE 13.

8. Assemble the grass catcher to riding mower. See figure 14.
9. Lift the grass catcher all the way up. Have someone hold grass catcher up or block up. Then with two ½" wrenches tighten hinge bracket bolts securely. See figures 15 and 16.

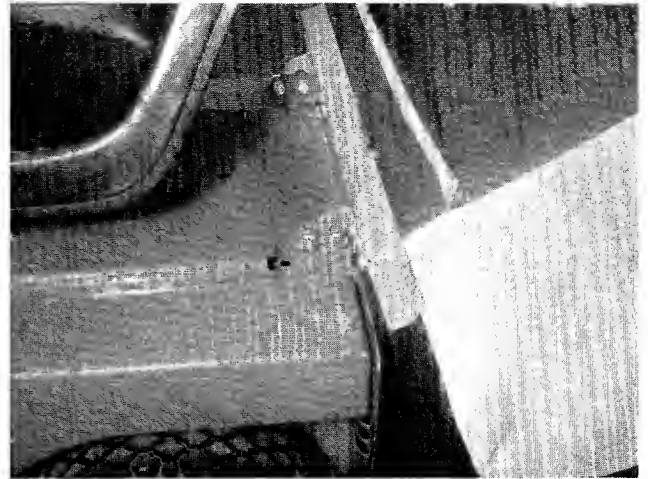


FIGURE 14.

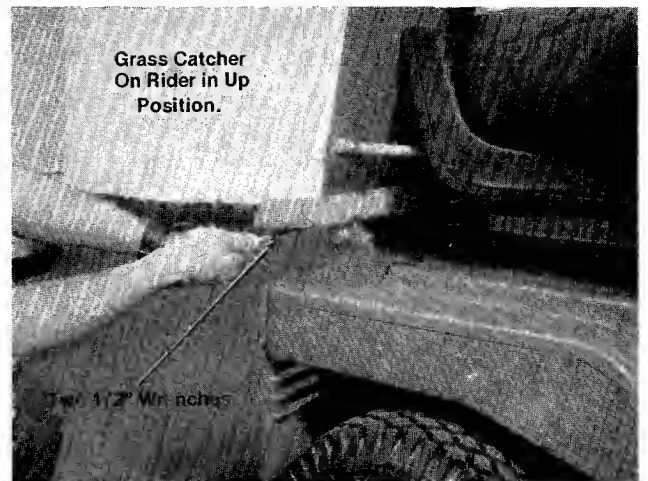


FIGURE 15.

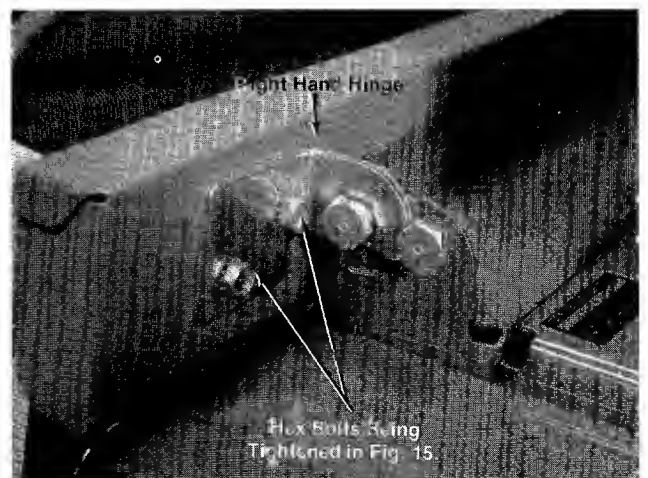


FIGURE 16.



# OPERATION



## CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position: Shift transmission in neutral. Set the parking brake. Disengage the blade engagement lever. Shut off engine. Remove ignition key.
3. Wait for all movement to stop. Remove and ground the spark plug wire to the engine block before servicing the machine.
4. Keep people and pets a safe distance away from the machine.

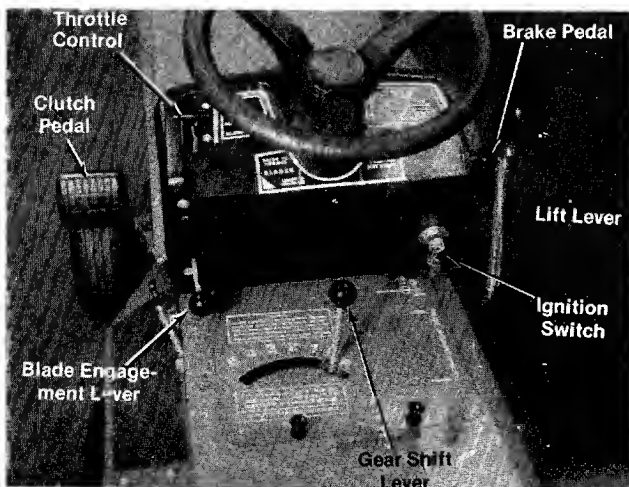


FIGURE 17.

### Throttle Control

The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from 3/4 to full throttle when operating the cutting deck or snow thrower. (See figure 17.)

### Ignition Switch (Electric Start)

The ignition switch is located on the right side of the dashboard. Turn the key to the START position to start the engine. When the engine is running leave the key in the ON position. To stop the engine turn the key to the OFF position.



## CAUTION

Remove the key from the riding mower when the mower is not in use to prevent accidental starting.

### Ignition Switch (Recoil Start)

The key must be turned to the ON position before you pull the recoil start handle to start the engine. To stop the engine turn the key to the OFF position.



## CAUTION

Remove the key from the riding mower when the mower is not in use to prevent accidental starting.

### Recoil Starter Handle

The recoil starter handle is located on the dashboard. Before starting the engine turn on the ignition key. Disengage the blade and depress the clutch pedal. Unlock the starter handle and pull out rapidly. After the engine starts, the recoil starter handle must be returned AND LOCKED INTO THE DASHBOARD. Failure to do this will shut off the engine when you engage the blade or release the clutch. See figure 18.

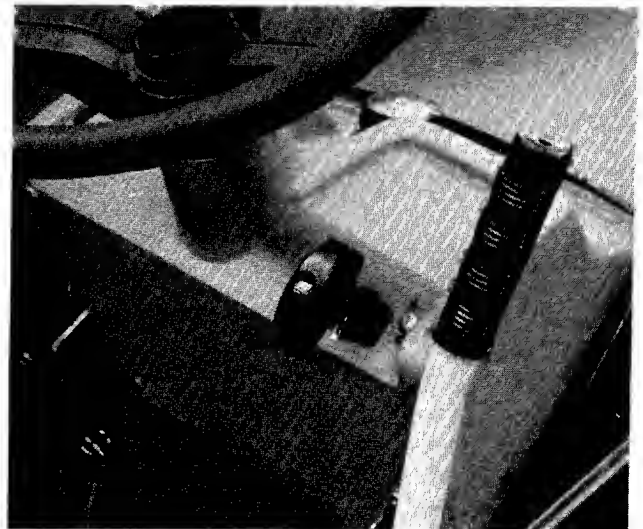


FIGURE 18.

### Battery Charger

See page 4 of this manual for battery charger operation.

### Safety Interlock System

A series of electric switches are used to insure that the clutch is disengaged and the cutting blade is shut off before you can start the engine.

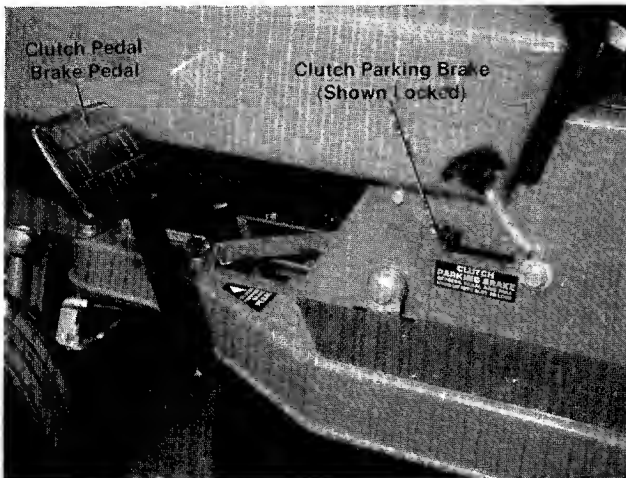
The safety interlock system has another switch located on the rear of the rider that is activated when the grass catcher is attached to the rider. If you remove the grass catcher or attempt to dump the grass without shutting off the blade, the engine will stop.

### Clutch Parking Brake Pedal

The clutch parking brake pedal is located on the left side of the rider and is used to disengage the drive mechanism. Depressing the clutch parking brake pedal will disengage the drive and **APPLY THE DISC BRAKE TO THE REAR WHEELS**. The clutch parking brake pedal must be depressed when you come to a stop, shift gears or start the engine. (See figure 19.)

### Clutch Parking Brake Lock

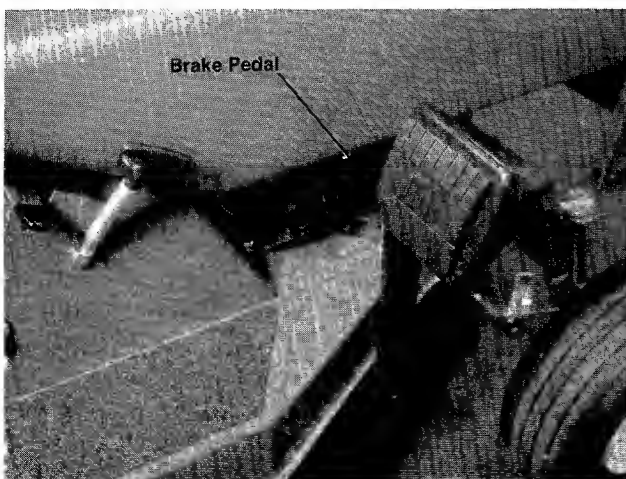
When the clutch parking brake pedal is depressed all the way it can be locked in the disengaged position by lifting up the lock button. To release, depress the pedal. (See figure 19.)



**FIGURE 19.**

### Brake Pedal

The brake pedal is located on the right side of the mower and is operated by depressing it with your right foot. When coming to a complete stop it is necessary to depress both the clutch parking brake and the brake pedals. (See figure 20.)



**FIGURE 20.**

### Gear Shift Lever

The five speed transmission has five forward speeds, neutral and reverse. You do not shift normally through the gears on this transmission as you do in an automobile. You pre-select the gear appropriate for the job you are doing. The list can be used as a guide to select the proper gear. You must depress the clutch pedal when you stop and when you shift.

- 1st gear—Heavy Cutting; Snow Removal
- 2nd gear—Medium Cutting; Snow Removal
- 3rd gear—Medium Cutting
- 4th gear—Light Cutting
- 5th gear—Traveling
- Neutral
- Reverse

### Cutting Height Adjustment

There are five cutting positions from 2 1/4" to 3 3/4". The lift lever raises and lowers the cutting deck. Use the stop to set the desired cutting height. (See figure 21.)



### CAUTION

The blade does not shut off when the deck is raised. You must place the Blade Engagement Lever in the raised (OFF) position.



**FIGURE 21.**

### Blade Engagement Lever

To engage the cutting blade, raise the Blade Engagement Lever up and to the left. It will lock in this position. To disengage the blade, move the Blade Engagement Lever to the right and lower it slowly. The blade must be shut off in order to start the engine or to dump the grass catcher. See figures 22 and 23.



### CAUTION

The Blade Engagement Lever must be in the disengaged position or the engine shut off before dumping or removing the grass catcher.

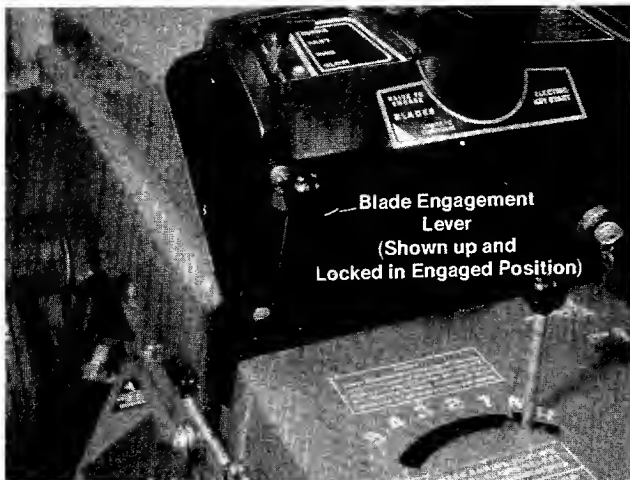


FIGURE 22.

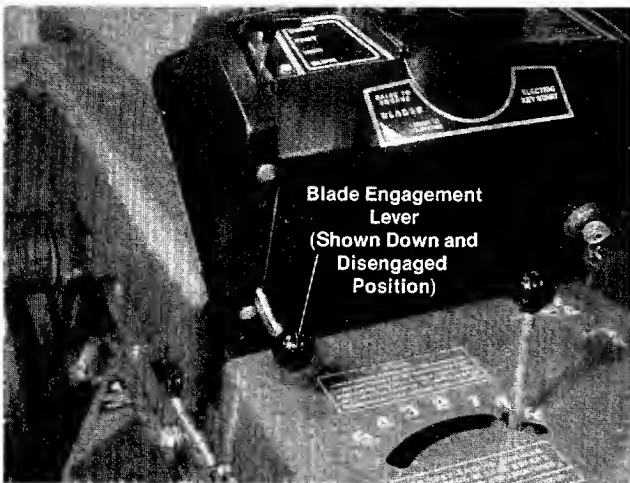


FIGURE 23.

### Grass Catcher Operation

The grass catcher can be removed to dump the clippings by grasping both handles and lifting the rear handle first to tip the catcher slightly and then remove it completely. To attach, hook the hinges on the catcher over the REAR pins on the riding mower. See figure 24.

To dump the grass, grasp the rear handle and pull it towards you. See figure 25.

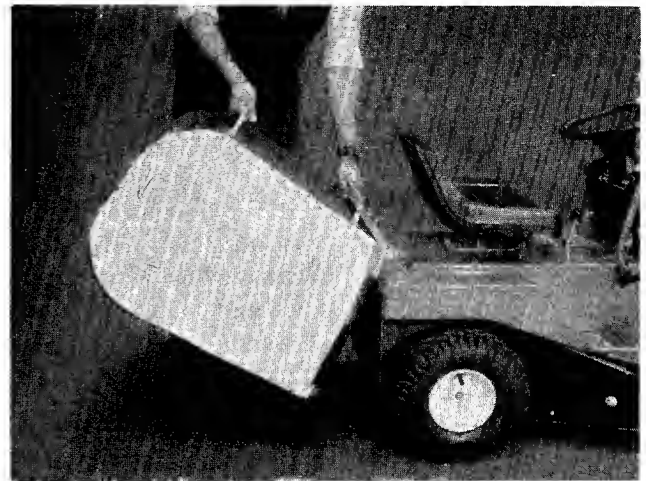


FIGURE 24.

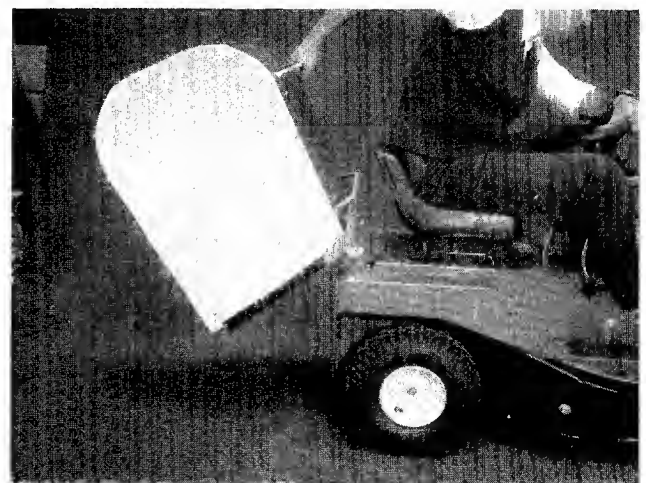


FIGURE 25.

# MAINTENANCE

## SPECIFICATIONS

(Lubricate once a season or after every 25 hours of operation)

Oil—Use SAE 30 or equivalent.

Grease—Use automotive multi-purpose grease. Except in the differential and transmission.

Grease (Transmission and Differential)—Use E.P. Lithium grease.

## NOTES

When operating in sandy areas do not oil the bearings.

Ball joints, idler bearings and tie rod ends require no lubrication.

Oil all linkage (clutch, deck, etc.) as required.

Engine—Remove dip stick and add oil until it reaches the FULL mark.

Above Freezing Temperature use oil with viscosity grade SAE 30, or SAE 10W-30 or SAE 10W-40.

Below Freezing Temperature use oil with viscosity grade SAE 5W-20, or SAE 5W-30 or SAE 10W.

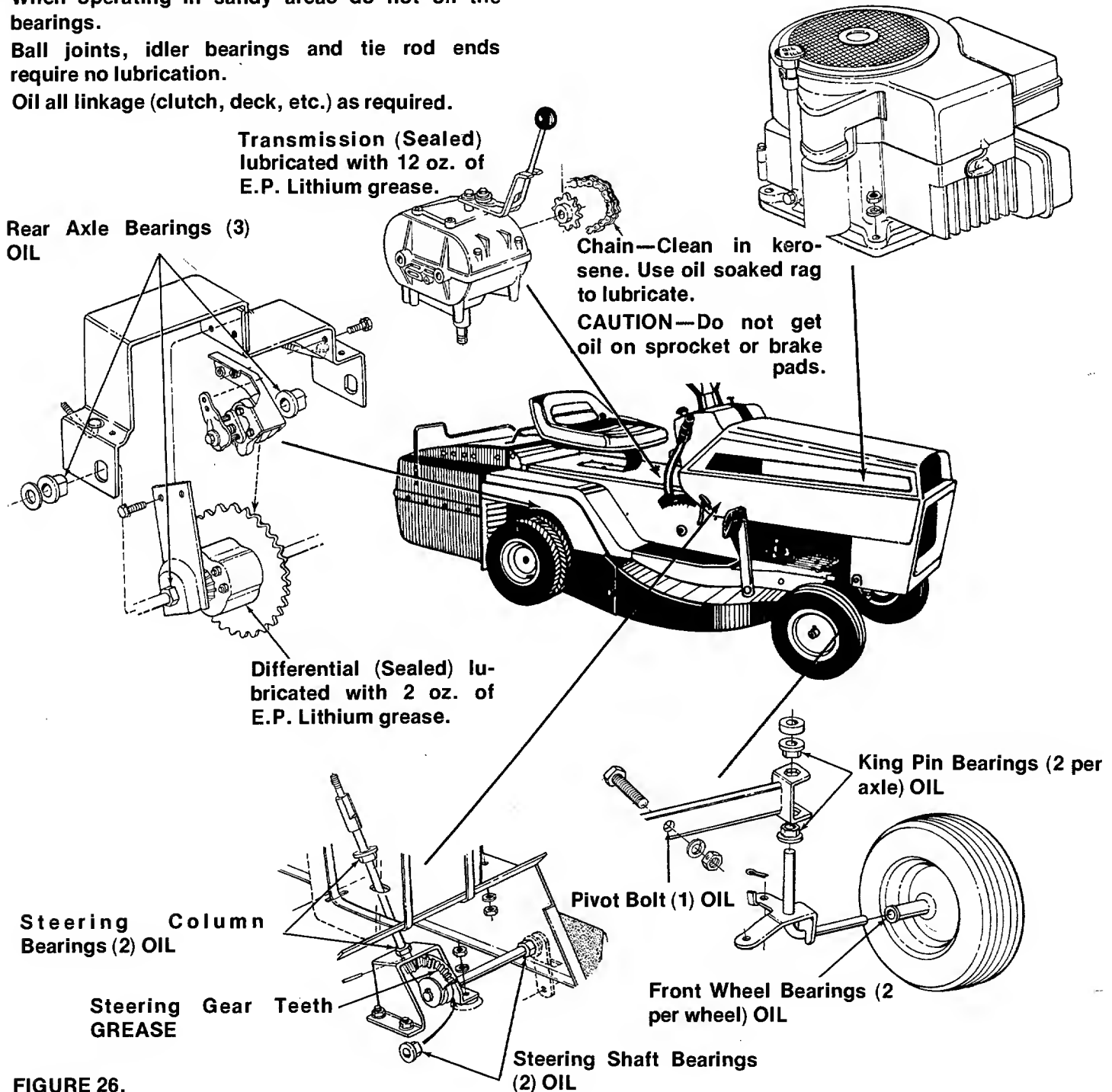


FIGURE 26.

# PREPARING FOR BELT REMOVAL



## WARNING

Disconnect the spark plug wire and ground it against the engine.

1. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of plastic film on the neck of the gasoline tank and screw on the cap.
2. Close the fuel shut-off valve located under the gasoline tank. See figure 27.
3. Remove the grass catcher.
4. Remove the battery.
5. Depress the clutch and lock it.
6. Lift the front end of the rider up and rest it on the rear frame. It will balance in this position.
7. Do not leave the mower in this position any longer than necessary as oil may get into the cylinder head. If this occurs remove the spark plug and crank the engine to clear the oil.

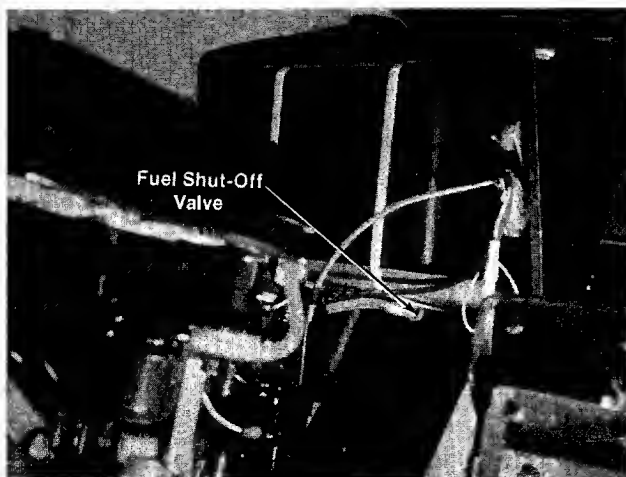


FIGURE 27.

## Deck Belt Removal

1. Place the Blade Engagement Lever in the disengaged position.
2. Remove the two shoulder bolts on the engine pulley. See figure 28.
3. Remove the belt keeper on the cutting deck. See figure 29.
4. Remove the nut from the idler on the cutting deck and remove the idler. See figure 29.

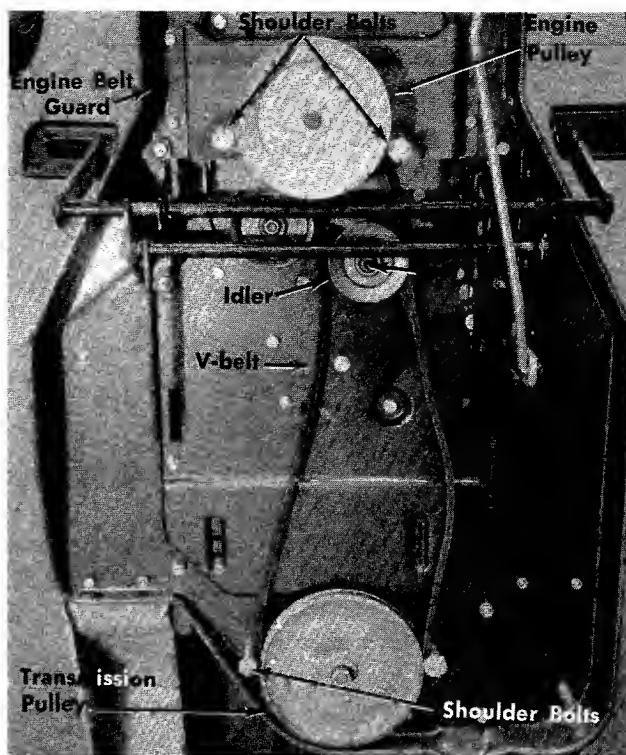


FIGURE 28.



## NOTE

The long side of the hub on the V-idler goes towards the deck.

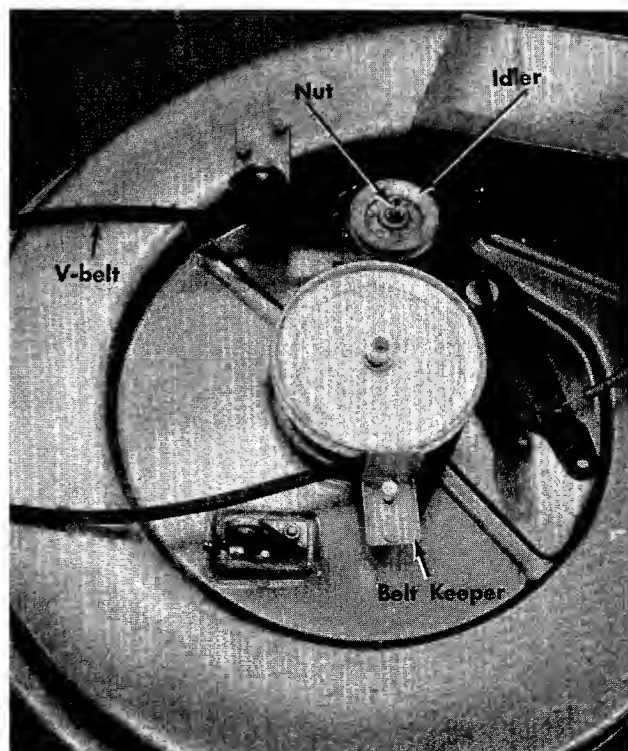


FIGURE 29.



1. Remove the two shoulder bolts from the engine pulley. See figure 28.
2. Remove the belt from the engine pulley.
3. Depress the clutch pedal and lock it in the disengaged position.
4. Remove the engine belt guard. See figure 28.
5. Remove the nut on the V-idler and slide the idler off the bracket. See figure 28.



The long side of the hub on the idler goes towards the frame.

6. Remove the two shoulder bolts on the transmission pulley. See figure 28.
7. Remove the nut on the transmission pulley and remove the pulley.



The short side of the hub on the pulley goes towards the frame.

8. Remove the belt and reassemble with a new belt.

### Cutting Blade

The blades may be removed for sharpening or replacement as follows:

1. Remove the large bolt and lockwasher holding the blade and adapter to the blade spindle. See figure 30.

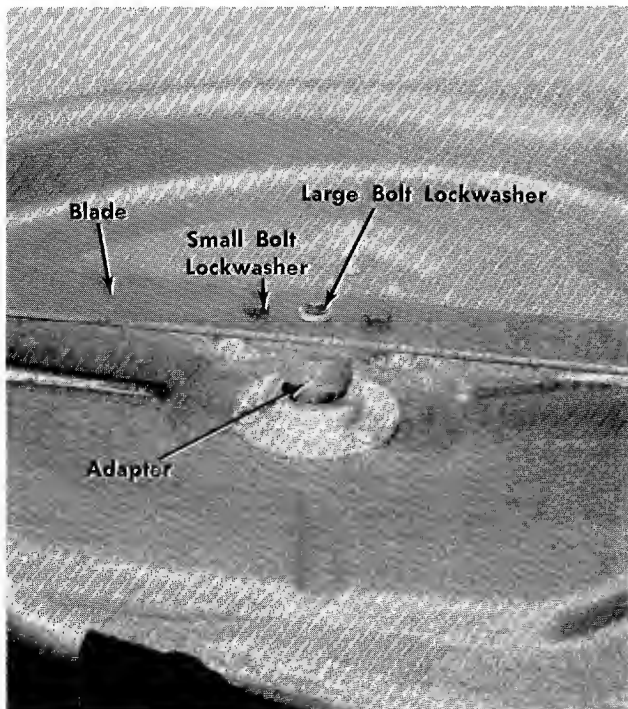


FIGURE 30.

2. Remove the blade and adapter from the blade spindle.
3. Be careful not to lose the key on the spindle.
4. Remove the two smaller bolts, lockwashers and nuts holding the blade to the adapter.

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

When replacing the blade be sure the side of the blade marked "Bottom" or having the part number is facing the ground when the mower is in the operating position.

### Chain Adjustment

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately 1/2 inch when it is depressed with the thumb.

1. To tighten the chain, loosen the two nuts on each side of the frame holding the differential bracket to the frame.



These are located under the frame.

2. Tighten the adjusting nuts as shown in figure 31 until you have the proper tension.
3. Tighten the nuts holding the differential bracket to the frame.

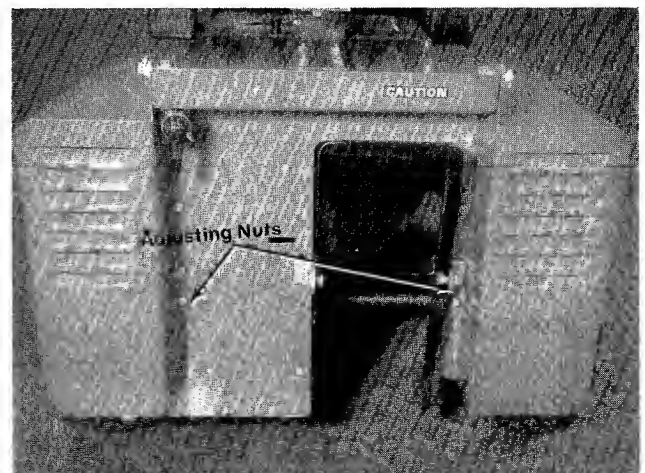


FIGURE 31.



### Brake Adjustment

To adjust the brake, tighten the locknut one half turn and then test the brakes. The brake stops the rider by gripping the sprocket on the rear axle. See figure 32.

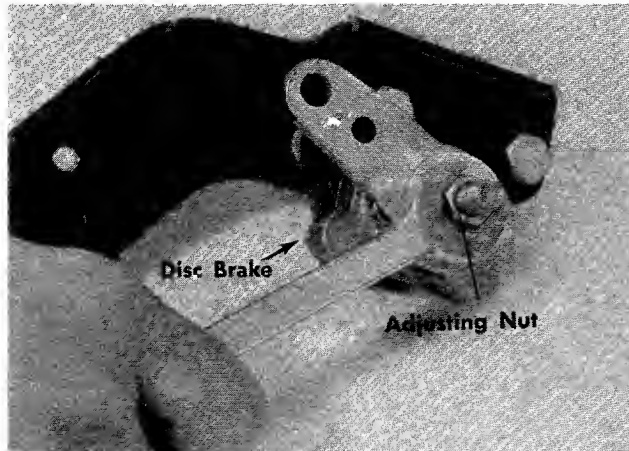


FIGURE 32.

### Wheel Alignment

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principles have been used to determine the caster and camber on the mower. The front wheels should toe-in 1/8 inch. (See figure.) To adjust follow these steps:

1. Remove the cotter pin holding the ferrule to the axle bracket. See figure 33.

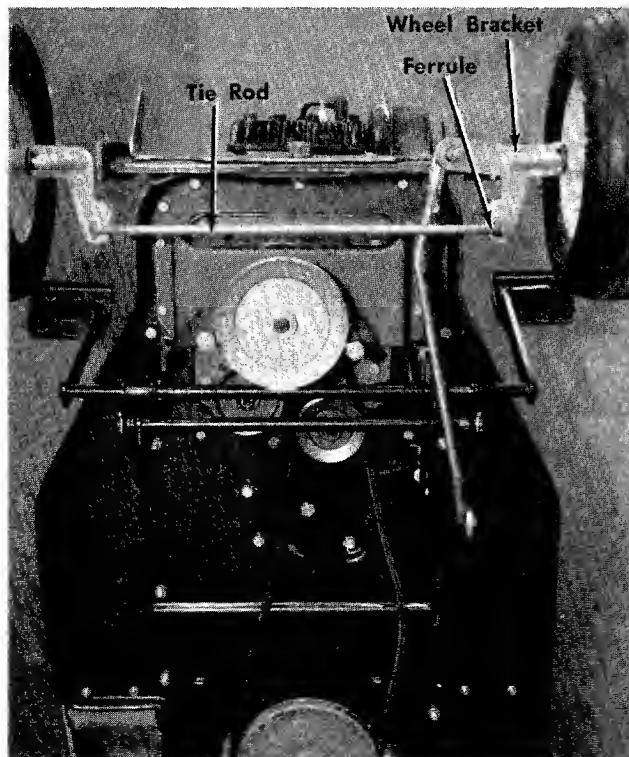


FIGURE 33.

2. Adjust the ferrule in or out until the wheels toe-in approximately 1/8".
3. Replace the ferrule into the wheel bracket and replace the cotter pin.

### Fuel Shut-Off Valve and Filter

The valve and filter is located on the bottom of the gasoline tank. Turn the valve knob in to shut off the fuel flow. Turn the valve knob out to operate the rider.

The entire valve can be pulled out to clean the filter. When reassembling, place the grommet into the gasoline tank first, then push the valve all the way in. See figure 34.



### NOTE

Be careful not to damage the filter screen on the valve.

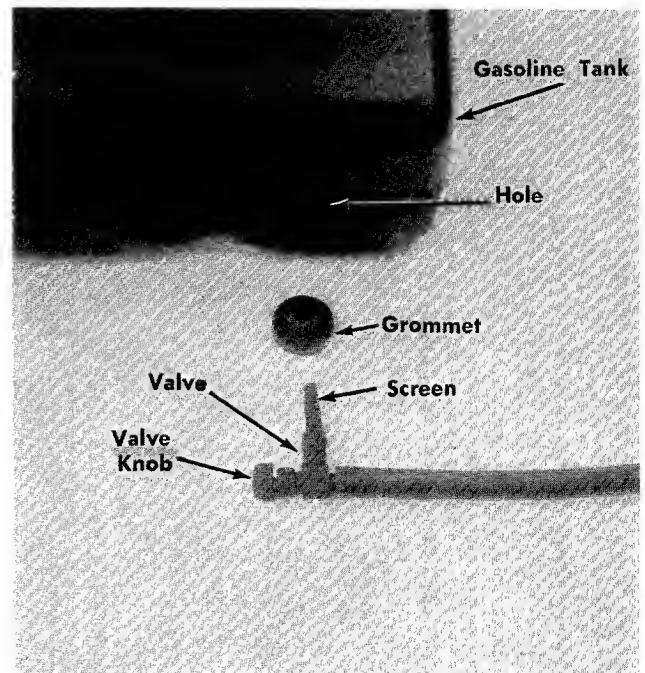


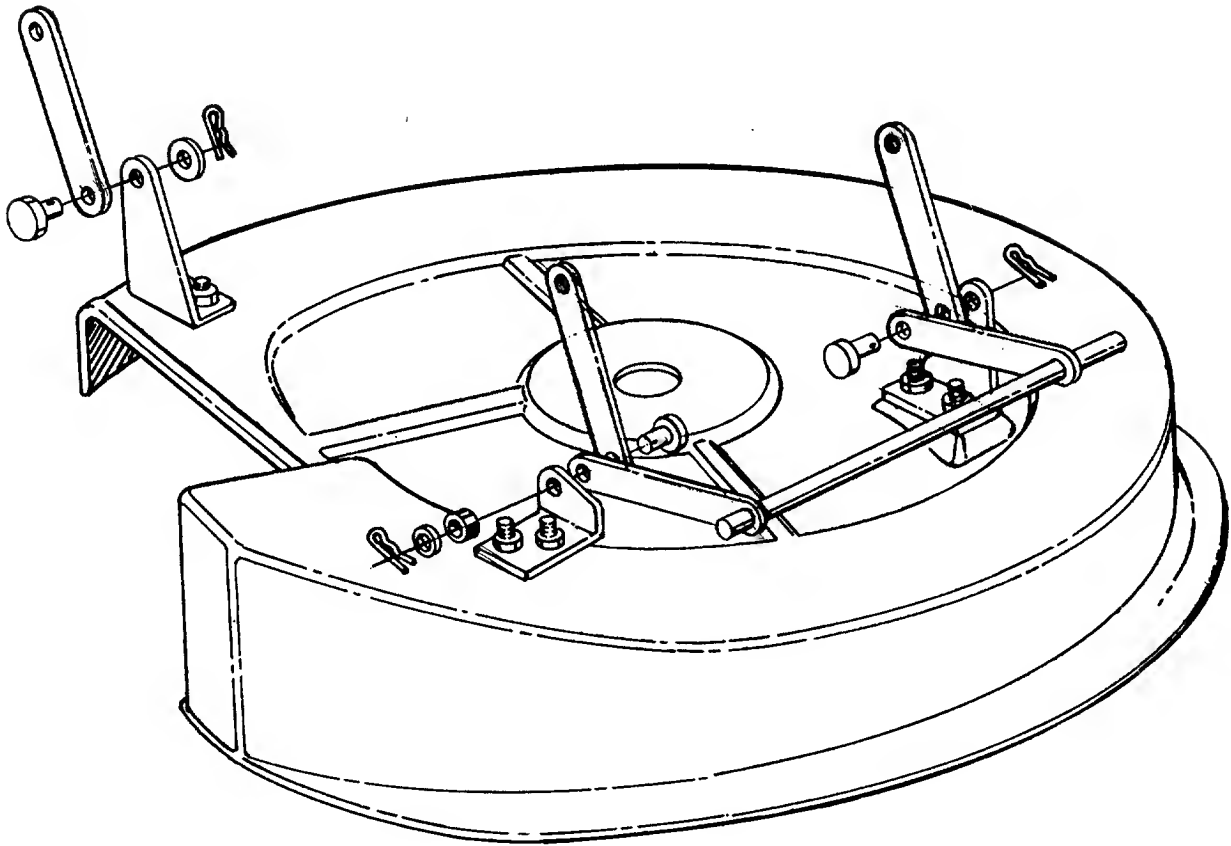
FIGURE 34.

# DECK LINKAGE

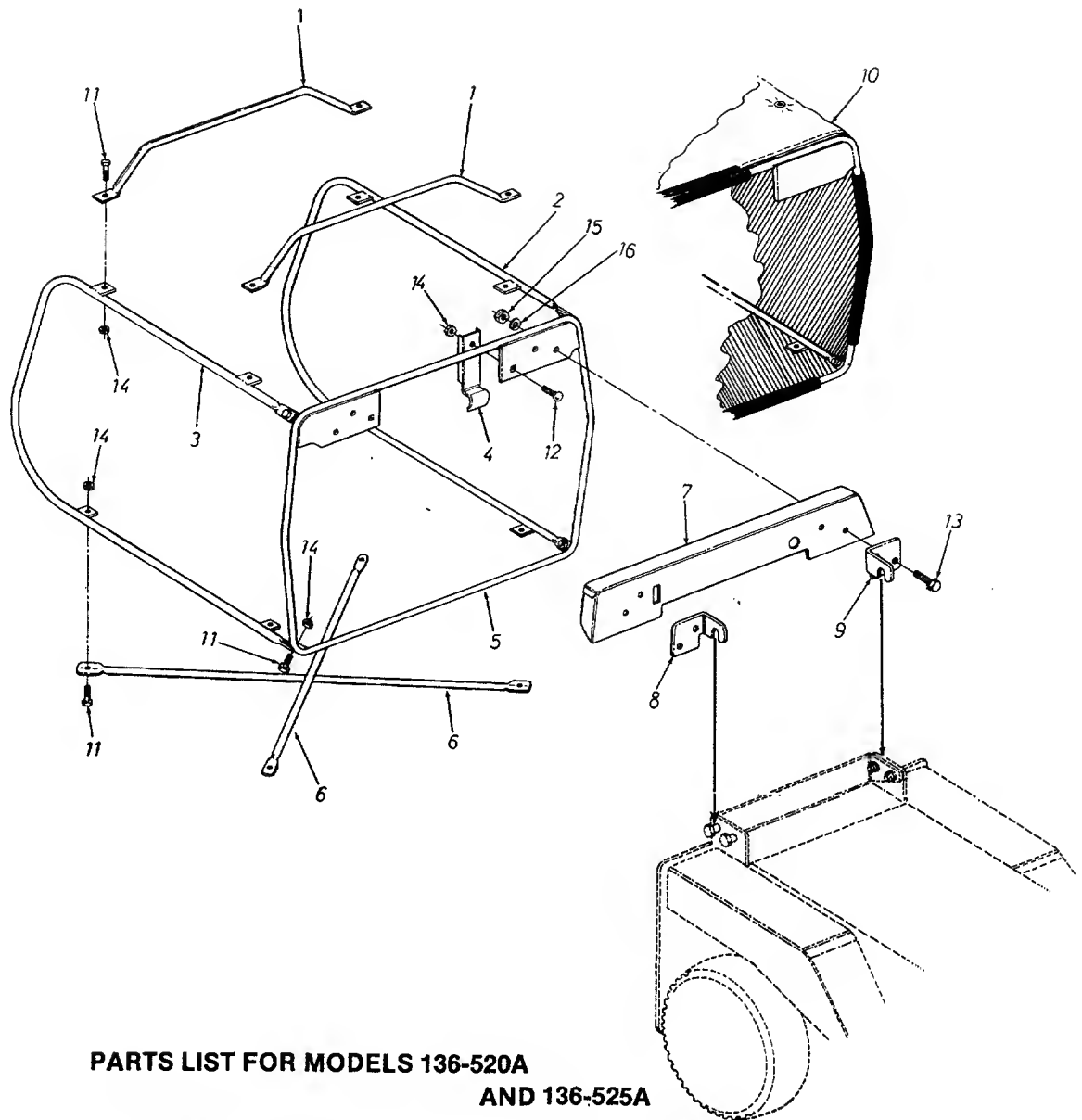


## NOTE

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason use the illustration below for correct assembly.



# 136-520A 136-525A



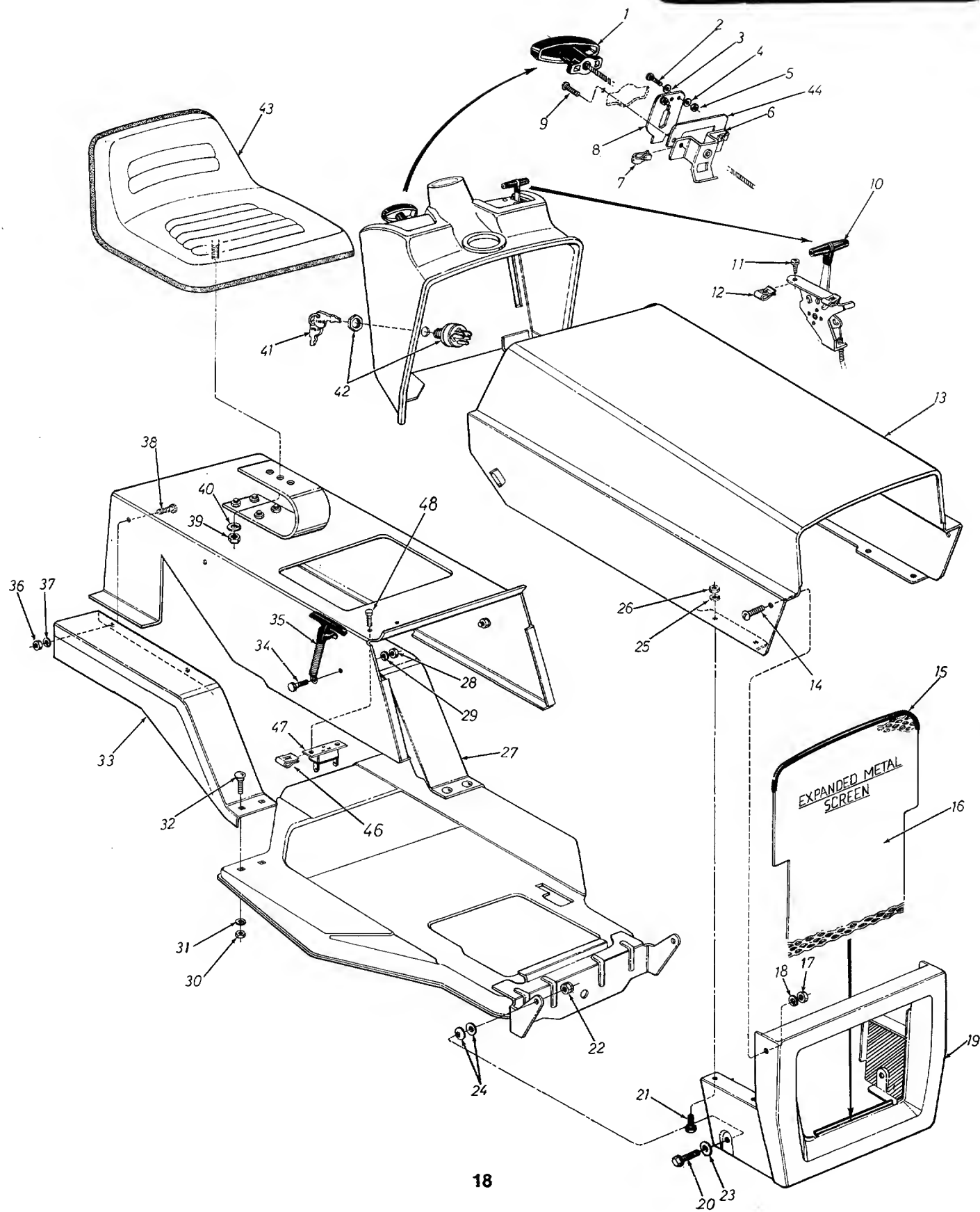
**PARTS LIST FOR MODELS 136-520A  
AND 136-525A**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	749-0221		Catcher Handles	N
2	12889		Catcher Side Frame Ass'y. L.H.	N
3	12890		Catcher Side Frame Ass'y. R.H.	N
4	12904		Switch Actuator Bracket	N
5	12887		Catcher Frame Ass'y.	N
6	749-0220		Bottom Cross Brace	N
7	12891		Dust Cover	N
8	12574		Hinge—R.H.	
9	12573		Hinge—L.H.	
10	764-0141		Grass Bag	
11	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
12	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	712-0107		Hex Cent. L-Nut 1/4-20 Thd.	
15	712-0267		Hex Nut 5/16-18 Thd.*	
16	736-0119		L-Wash. 5/16" Scr.*	

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

136-520A  
136-525A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



# PARTS LIST FOR MODELS 136-520A AND 136-525A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	11263		Plastic Handle (520A)		24	736-0105		Bell.-Wash. .400 I.D. x .88 O.D.	
2	710-0425		Truss Hd. Mach. Scr. #10-24 x .62 (520A)		25	736-0329		L-Wash. 1/4" Scr. *	
3	736-0338		Fiber Wash. (520A)		26	712-0287		Hex Nut 1/4-20 Thd. *	
4	736-0338		Fiber Wash. (520A)		27	12715 —462		Fender Ass'y. L.H.	
5	712-0121		Hex Nut #10-24 Thd. (520A)		28	712-0287		Hex Nut 1/4-20 Thd. *	
6	11053		Switch Brkt. Ass'y. (520A)		29	736-0329		L-Wash. 1/4" Scr. *	
7	712-0344		Speed Nut 10Z "U"-Type (520A)		30	712-0287		Hex Nut 1/4-20 Thd. *	
8	732-0257		Switch Spring (520A)		31	736-0329		L-Wash. 1/4" Scr. *	
9	710-0351		Truss Hd. Mach. B-Tapp. Scr. #10 x .50" Lg. (520A)		32	710-0134		Carriage Bolt 1/4-20 x .62" Lg. *	
10	746-0127		Throttle Control Ass'y. Comp. 14.0" Lg.		33	12712 —462		Fender Ass'y. R.H.	
11	710-0351		Truss Hd. Mach. B-Tapp. Scr. #10 x .50" Lg.		34	710-0258		Hex Scr. 1/4-20 x .62" Lg. *	
12	712-0344		Speed Nut 10Z "U"-Type		35	723-0296		Hood Lock Ass'y.	
13	12451 —462		Hood-Front		36	712-0121		Hex Nut 10-24 Thd. *	
14	710-0286		Truss Hd. Mach. Scr. 1/4-20 x .50" Lg. *		37	736-0722		L-Wash. #10 Scr. *	
15	731-0130		Extruded "U"-Channel 22.50" Lg.		38	710-0425		Truss Hd. Mach. Scr. 10-24 x .62" Lg. *	
16	12475		Screen-Grille		39	712-0206		Hex Nut 1/2-13 Thd. *	
17	712-0287		Hex Nut 1/4-20 Thd. *		40	736-0921		L-Wash. 1/2" Scr. *	
18	736-0329		L-Wash. 1/4" Scr. *		41	725-0266		Ignition Switch (520A)	
19	12456 —462		Grille Ass'y.			725-0267		Ignition Switch (525A)	
20	710-0253		Hex Scr. 3/8-16 x 1.00" Lg. *		42	725-0128		Ignition Key (520A)	
21	710-0211		Hex Sems Scr. 1/4-20 x .62" Lg. *			725-0201		Ignition Key (525A)	
22	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		43	757-0264		Seat Ass'y. —Comp.	
23	736-0140		Fl-Wash. .385 I.D. x .630 O.D. x .056		44	12545		Grounding Plate (520A)	
					46	726-0156		Speed Nut 10-24	
					47	725-0459		Circuit Breaker (525A)	
					48	710-0425		Truss Hd. Mach. Scr. #10-14 x .62" Lg. * (525A)	

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

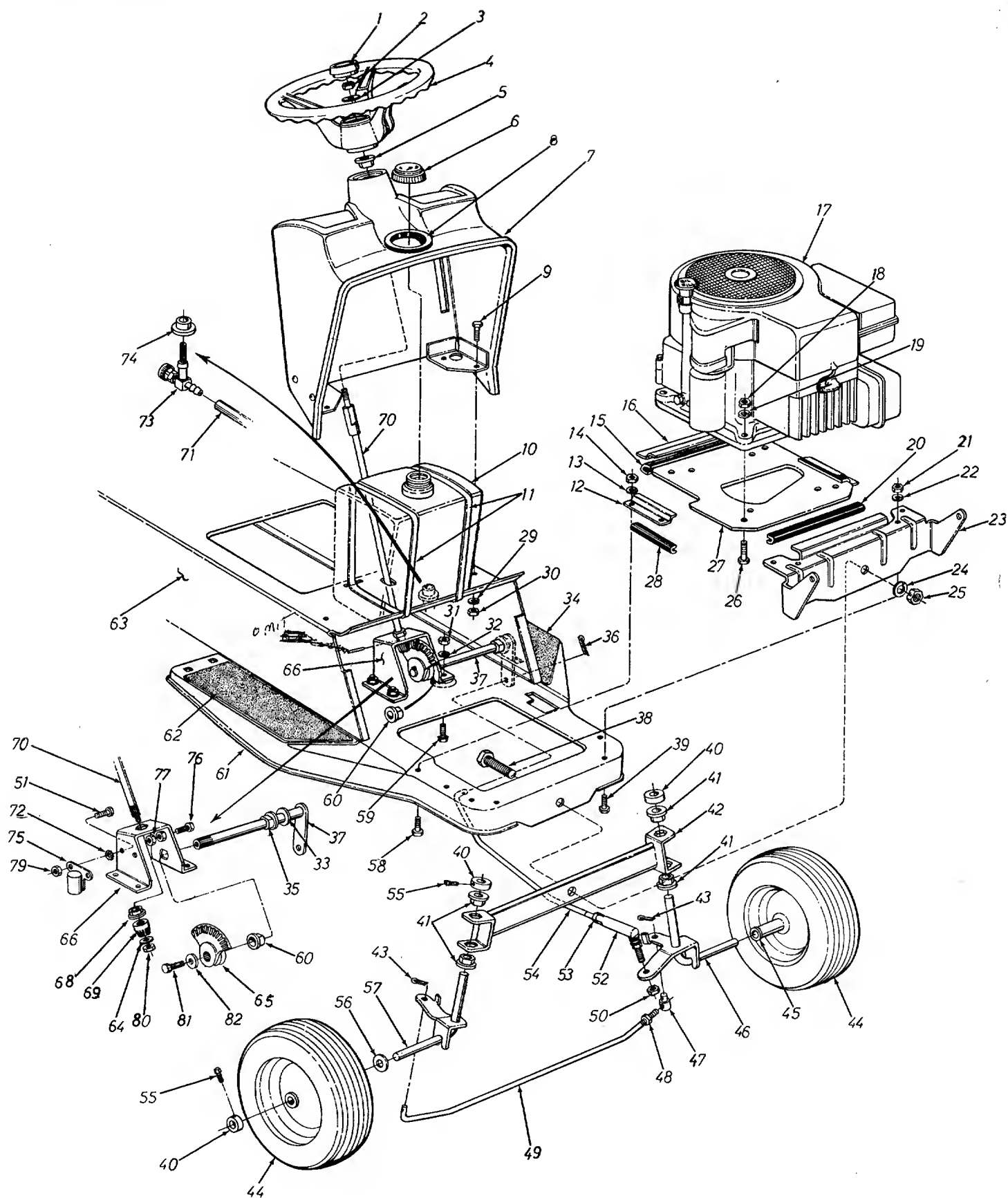
(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12451 (462).)

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."



# 136-520A 136-525A





# PARTS LIST FOR MODELS 136-520A AND 136-525A

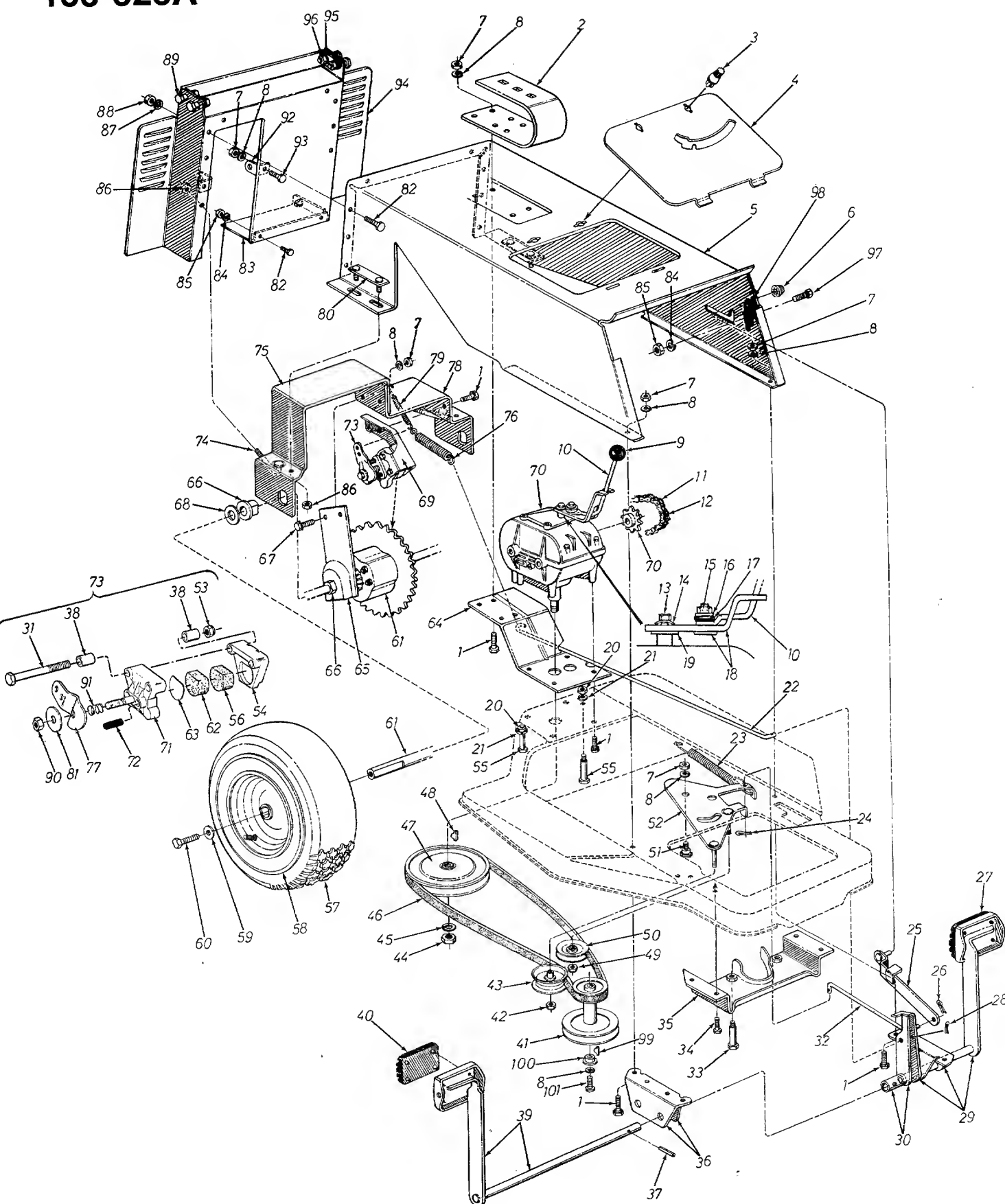
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		44	734-0488		Front Wheel Ass'y.—Comp.	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		45	748-0184		11.0 x 4.0 Sintered Bearing	
3	736-0242		Bell. Wash. .345 I.D. x .88 O.D.		46	12491 —462		Front Axle Ass'y.—L.H.	
4	731-0219		Steering Wheel		47	711-0198		Pivot Bushing	
5	748-0227		Hex Flange Bushing .62" I.D.		48	712-0711		Hex Jam Nut 3/8-24 Thd. *	
6	723-0155		Fuel Gauge—Cap		49	747-0144		Tie Rod	
7	12542		Dash Panel Ass'y. (520A)		50	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
	12602		Dash Panel Ass'y. (525A)		51	710-0289		Hex Scr. 1/4-20 x .50" Lg. * (525A)	
8	735-0179		Rubber Grommet (Fuel Tank Neck)		52	723-0156		Ball Joint Ass'y.	
9	710-0211		Hex Sems Scr. 1/4-20 x .62" Lg. *		53	712-0711		Hex Jam Nut 3/8-24 Thd. *	
10	751-0172		Fuel Tank		54	747-0158		Drag Link	
11	726-0153		Cable Tie (Fuel Tank)		55	710-0494		Sq. Hd. Set Scr. 5/16-18 x .38" Cup Point	
12	12505		Shock Brkt. 4.50" Lg.		56	736-0156		FI-Wash. .630 I.D. x 1.120 O.D. x .100	
13	736-0329		L-Wash. 1/4" Scr. *		57	12492 —462		Front Axle Ass'y.—R.H.	
14	712-0287		Hex Nut 1/4-20 Thd. *		58	710-0211		Hex Sems Scr. 1/4-20 x .62" Lg. *	
15	735-0176		Engine Mtg. Extrus. 9.25" Lg.		59	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg. *	
16	12504		Shock Brkt. 10" Lg.		60	748-0151		Flange Brg. w/Flats	
17	—		Engine		61	12600 —462		Front Frame Ass'y.	
18	712-0123		Hex Nut 5/16-24 Thd. *		62	723-0306		Foot Pad—R.H.	
19	736-0119		L-Wash. 5/16" Scr. *		63	12450 —462		Rear Frame	
20	735-0177		Engine Mtg. Extrusion 7.00" Lg.		64	<del>715-0135</del> 736-0264		<del>Spring Pin Spiral 5/16" Dia. x 1.50" Lg. Hd. Ft. Wash. 5/16" Scr.</del>	
21	712-0267		Hex Nut 5/16-18 Thd. *		65	748-0236		Side Gear	N
22	736-0119		L-Wash. 5/16" Scr. *		66	12851		Steering Gear Support Ass'y.	N
23	12467 —462		Front Pivot Bracket		<del>67</del>	<del>715-0120</del>		<del>Spring Pin Spiral 3/16" Dia. x 1.00" Lg.</del>	
24	736-0158		L-Wash. 5/8" Scr. *		68	748-0228		Hex Flange Bushing .50" I.D.	
25	712-0923		Hex Cent. L-Nut 5/8-18 Thd.		69	748-0237		Pinion Gear	N
26	710-0158		Hex Scr. 5/16-24 x 1.25 H.T.		70	738-0325		Steering Shaft	N
27	12463		Engine Base Plate		71	751-0173		Hose 17" Lg. Clear	
28	735-0178		Engine Mtg. Extrusion 4.00" Lg.		72	736-0222		Ext. L-Wash. 1/4" Scr. * (525A)	
29	736-0329		L-Wash. 1/4" Scr. *		73	751-0171		Fuel Shut-Off Valve	
30	712-0287		Hex Nut 1/4-20 Thd. *		74	735-0149		Bushing—Fuel Tank	
31	712-0267		Hex Nut 5/16-18 Thd. *		75	725-0270		Solenoid (525A)	
32	736-0119		L-Wash. 5/16" Scr. *		76	710-0670		Hex Scr. Nylon 3/8-16 x 1.25" Lg.	N
33	736-0134		FI-Wash. .812 I.D. x 1.38 O.D. x .100		77	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
34	723-0307		Foot Pad—L.H.		<del>78</del>	<del>710-0342</del>		<del>Hex Scr. 3/8-16 x 1.25" Lg. *</del>	
35	748-0151		Flange Brg. w/Flats		79	712-0287		Hex Nut 1/4-20 Thd. * (525A)	
36	714-0507		Cotter Pin 3/32" Dia. x .75" Lg. *		80	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
37	12815		Steering Arm Ass'y.	N	81	710-0180		Hex Scr. 3/8-24 x .75" Lg. *	
38	710-0622		Hex Scr. 5/8-18 x 1.62" Lg.		82	736-0105		Bell. Wash.	
39	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg. *						
40	711-0169		Collar						
41	748-0227		Hex Flange Bushing .62" I.D.						
42	12415 —462		Pivot Bar Ass'y.						
43	714-0474		Cotter Pin 1/8" Dia. x .75" Lg. *						

(462—Red Flake)

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12451 (462).)

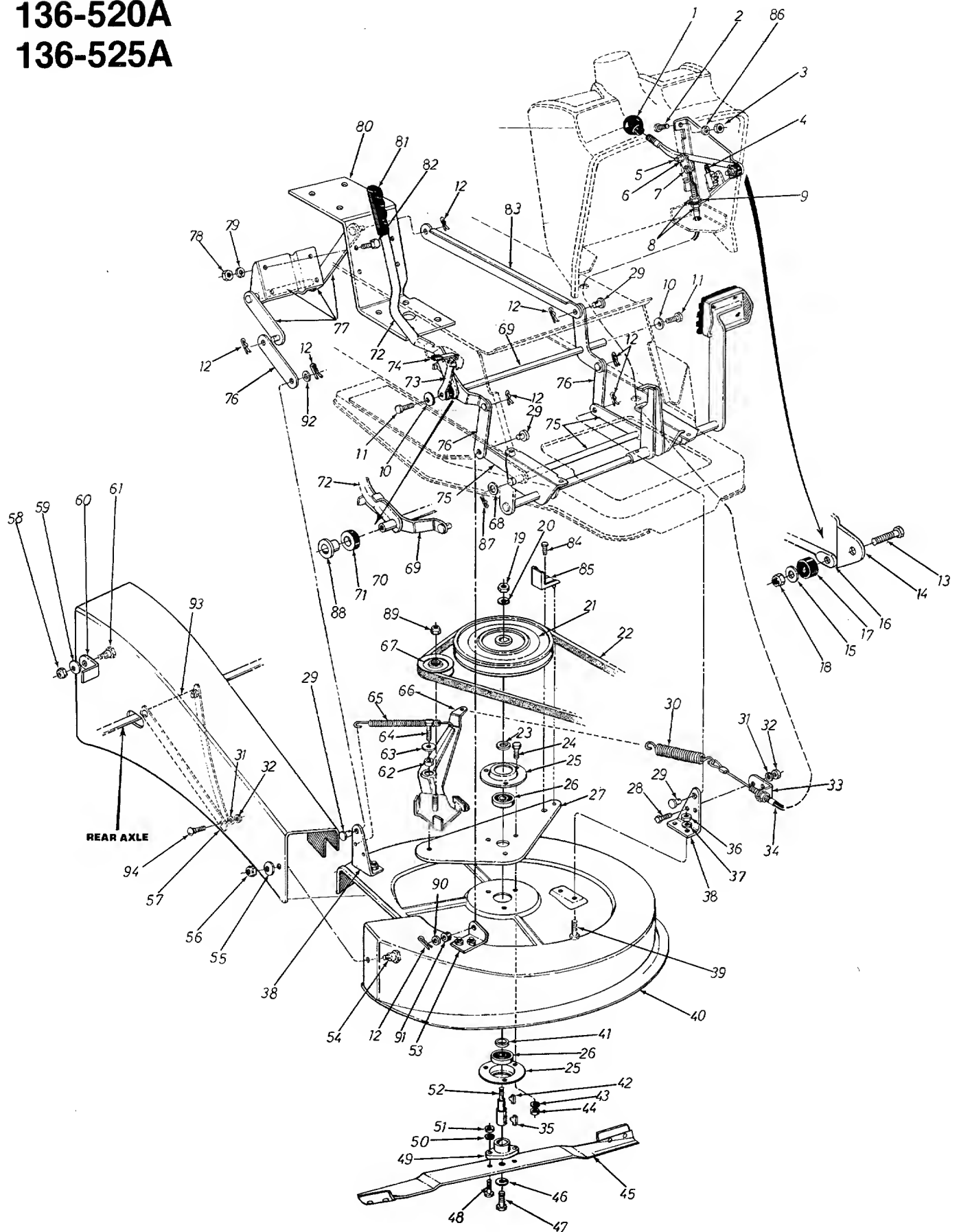
**136-525A**



**PARTS LIST FOR MODELS 136-520A AND 136-525A**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		52	12484		Idler Bracket Ass'y.	
2	732-0256		Seat Spring 3.25" High		53	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	726-0151		Fastener (Self Ret. 1/4 Turn)		54	HH-12-03293		Casting—Carrier	
4	12471 —462		Rear Frame Cover		55	738-0129		Shld. Scr. .498" Dia. x 2.00" Lg.	
5	12450 —462		Rear Frame		56	HH-15-03149		Pad—Friction	
6	726-0121		Push Cap .25" Dia.—Black		57	734-0715		Rear Wheel Ass'y.—Comp. 14.5 x 5.6	
7	712-0267		Hex Nut 5/16-18 Thd.*			734-0714		Rear Wheel Tire Only 14.5 x 5.6	
8	736-0119		L-Wash. 5/16" Scr.*		58	734-0517		Rear Wheel Rim Only	
9	720-0165		Ball Knob		59	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
10	11545		Shift Lever—Transmission		60	710-0627		Hex Cent. Lock Scr. 5/16-24 x .75" Lg. H.T.	
11	713-0189		#420 Chain 1/2" Pitch x 77 Links		61	717-0327		Differential Ass'y. Comp.	N
12	713-0154		#420 Master Link		62	HH-15-02124		Pad—Friction	
13	710-0513		Hex Scr. 1/4-28 x .62" Lg. (Lock)		63	HH-03-03303		Disc—Back-up	
14	736-0270		Bell. Wash. .25" I.D. x .88 O.D. x .062		64	12462		Seat Support	
15	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		65	12508		Rear Axle Plate	
16	736-0159		FI-Wash. .344 I.D. x .88 O.D.		66	748-0151		Flange Brg. w/Flats .753 I.D.	
17	735-0126		Rubber Wash. .33 I.D. x .87 O.D.		67	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
18	11548		Shift Lever Brkt. Ass'y.		68	736-0134		FI-Wash. .812 I.D. x 1.38" O.D. x .100	
19	717-0234		Hardened Wash. 1.00 O.D. (Special)		69	12482		Disc Brake Brkt. Ass'y.	
20	712-0798		Hex Nut 3/8-16 Thd.*		70	—		Transmission (Five Speed)	
21	736-0169		L-Wash. 3/8" Scr.*		71	HH-12-03292		Casting—Cam	
22	747-0155		Brake Rod		72	HH-05-03034		Push Pin	
23	732-0233		Extension Spring		73	761-0130		Disc Brake Ass'y.—Comp.	
24	726-0135		Cap Speed Nut 5/16" Rod		74	710-0437		Chain Adj. Link 5/16-18 x 4.38" Lg.	
25	12506 —462		Clutch Lockout Ass'y.		75	12460		Rear Axle Brkt.—R.H.	
26	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*		76	732-0245		Brake Spring	
27	12379		Clutch Pedal Pad		77	HH-18-03493		Cam Lever	
28	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*		78	12459		Rear Axle Brkt.—L.H.	
29	12539 —462		Clutch Pedal and Brkt. Ass'y.		79	732-0157		Brake Return Spring	
30	12486 —462		Brake Lever Ass'y.		80	10360		Plate Ass'y. Axle Bolt	
31	710-0395		Hex Scr. 5/16-18 x 2.25" Lg.		81	HH-03-03032		Washer	
32	747-0156		Clutch Rod		82	710-0425		Truss Hd. Mach. Scr. 10-24 x .62" Lg.	
33	738-0215		Shld. Scr. .498" Dia. x 3.00" Lg.		83	12537		Baffle Plate	
34	710-0211		Hex Sems Scr. 1/4-20 x .62" Lg.*		84	736-0147		Ext. L-Wash.	
35	12488 —462		Engine Belt Guard Ass'y.		85	712-0121		Hex Nut 10-24 Thd.*	
36	12534 —462		Pedal "U"-Brkt.—R.H.		86	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
37	715-0114		Spring Pin Spiral .25" Dia. x 1.50" Lg.		87	736-0329		L-Wash. 1/4" Scr.*	
38	HH-11-03527		Bushing		88	712-0287		Hex Nut 1/4-20 Thd.*	
39	12543		Brake Pedal Shaft Ass'y.		89	738-0143		Shld. Scr. .498 Dia. x .330 Lg.	
40	12378		Brake Pedal Pad		90	712-0134		Hex Top L-Nut	
41	756-0246		Two Step Engine Pulley		91	HH-06-03031		Spring	
42	712-0116		Hex Ins. L-Nut 3/8-24 Thd.		92	12541		Chute Pivot Brkt.	
43	756-0217		FI-Idler w/Flanges 2.75" Dia.		93	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
44	712-0922		Hex Jam Nut 1/2-20 Thd.*		94	12544 —462		Grass Catcher Adapter	
45	736-0921		L-Wash. 1/2" Scr.*		95	736-0169		L-Wash. 3/8" Scr.*	
46	754-0198		"V"-Belt 1/2" x 62" Lg. (Drive)		96	712-0798		Hex Nut 3/8-16 Thd.*	
47	756-0174		Transmission Split Pulley .50" I.D.		97	710-0289		Hex Scr. 1/4-20 x .50" Lg.*	
48	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		98	725-0269		Safety Switch	
49	712-0116		Hex Ins. L-Nut 3/8-24 Thd.		99	714-0365		#6 Hi-Pro-Key 5/32 x 5/8" Dia.	
50	756-0116		"V"-Idler		100	711-0572		Step Washer Special	
51	738-0140		Shld. Scr. .437" Dia. x .180		101	710-0539		Hex Scr. 3/8-24 x 1.75" Lg.*	

# 136-520A 136-525A



**PARTS LIST FOR MODELS 136-520A AND 136-525A**

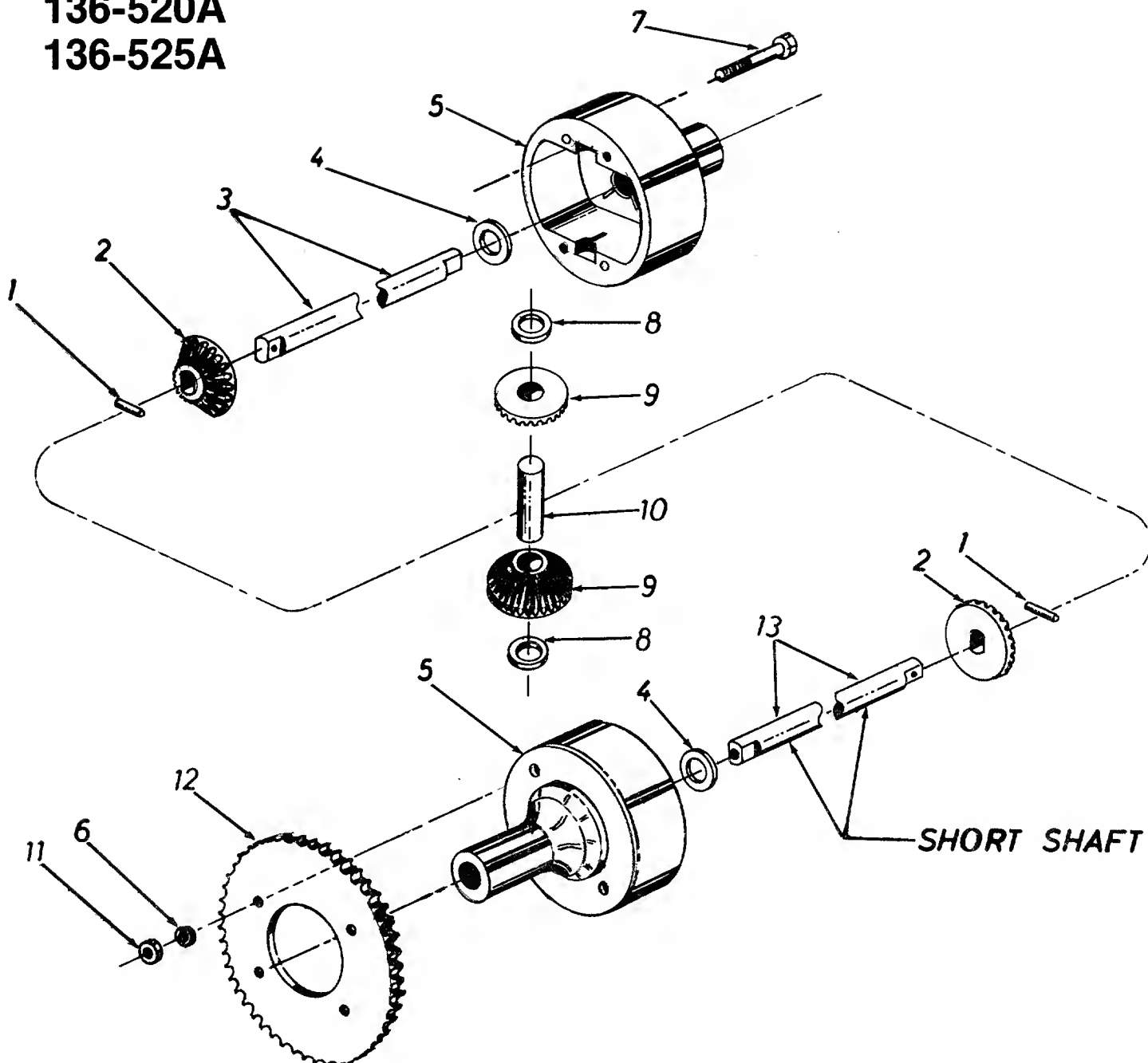
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0165		Ball Knob		49	10769		Blade Adapter Kit	
2	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.*		50	736-0119		L-Wash. 5/16" Scr.*	
3	712-0287		Hex Nut 1/4-20 Thd.*		51	712-0123		Hex Nut 5/16-24 Thd.*	
4	725-0465		Safety Switch (Blade Clutch)		52	738-0292		Blade Spindle	
5	710-0282		Weld Pin .250 Dia. x .62" Lg.		53	12532		Deck Bracket (Chute)	
6	726-0106		Push Cap .250 Dia.		54	738-0147		Shld. Scr. .500 Dia. x .170 Lg.	
7	761-0145		Clevis		55	736-0140		Fi-Wash. .385 I.D. x .88 O.D.	
8	712-0256		Hex Jam Nut 5/16-24 Thd.*		56	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
9	736-0119		L-Wash. 5/16" Scr.*		57	12464 —462		Chute Ass'y.	
10	736-0219		Bell. Wash. .400 I.D. x 1.110 O.D.		58	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
11	710-0623		Hex Wash. Hd. Self Tap Scr. 3/8-16 x .75" Lg.		59	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
12	714-0101		Internal Cot-Pin 1/2" Dia.		60	12541		Chute Pivot Brkt.	
13	710-0106		Hex Scr. 1/4-20 x 1.25" Lg.*		61	738-0140		Shld. Scr. .437 I.D. x .180" Lg.	
14	12476		Deck Clutch Control Brkt.		62	750-0258		Spacer .315 I.D. x .75 O.D. x .370 Lg.	
15	736-0173		Fi-Wash. .280 I.D. x .750 O.D. x .063		63	736-0231		Fi-Wash. .312 I.D. x 1.12 O.D. x .12	
16	747-0157		Blade Clutch Lever		64	710-0529		Hex Wash. Hd. Self Tap Scr. 5/16-18 x .88" Lg.	
17	735-0165		Rubber Washer		65	732-0308		Extension Spring	
18	712-0107		Hex Cent. L-Nut 1/4-20 Thd.		66	12469		Deck Idler Brkt. Ass'y.	
19	712-0261		Hex Nut 5/8-11 Thd.*		67	756-0116		V-Idler Pulley	
20	736-0158		L-Wash. 5/8" Scr.*		68	736-0116		Fi-Wash. .630 I.D. x .930 O.D. x .060	
21	756-0143		Deck Pulley		69	12472		Lift Handle Shaft Ass'y.	
22	754-0195		"V"-Belt "A" or 1/2" x 54" Lg.		71	735-0180		Rubber Wash.	
23	748-0168		Spacer		72	749-0174		Lift Handle	
24	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*		73	12479		Lift Handle Stop	
25	08253		Bearing Housing		74	11249		Height Adj. Knob	
26	741-0919		Ball Bearing .787 I.D. x 1.850 O.D.		75	12477		Lift Arm Shaft Ass'y.	
27	12453 —462		Deck Belt Guard Plate		76	12054		Deck Link	
28	710-0211		Hex Sems Scr. 1/4-20 x .75" Lg.*		77	12502		Lift Pivot Brkt. Ass'y.	
29	711-0332		Lift Brkt. Pin Special		78	712-0287		Hex Nut 1/4-20 Thd.*	
30	732-0304		Extension Spring .73 O.D. x 4.31" Lg.		79	736-0329		L-Wash. 1/4" Scr.*	
31	736-0329		L-Wash. 1/4" Scr.*		80	12462		Seat Support	
32	712-0287		Hex Nut 1/4-20 Thd.*		81	08118		Grip	
33	12509		Cable Bracket		82	710-0597		Hex Sems Scr. 1/4-20 x 1.00" Lg.*	
34	746-0253		Clutch Control Cable 26.88" Lg.		83	12495		Connecting Link	
35	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.		84	710-0627		Hex Wash. Hd. Self Tap Scr. 5/16-24 x .75" Lg.	
36	712-0267		Hex Nut 5/16-18 Thd.*		85	10426		Belt Keeper Ass'y.	
37	736-0119		L-Wash. 5/16" Scr.*		86	736-0329		L-Wash. 1/4" Scr.*	
38	12531 —462		Deck Bracket		87	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.	
39	710-0451		Carriage Bolt 5/16-18 x .75" Lg.*		88	748-0176		Flange Bearing .62 I.D. x .87 O.D. x .63" Lg.	
40	12455 —462		26" Deck—Rear Discharge		89	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
41	750-0142		Spacer .836 I.D. x 1.01 O.D. x .320 Lg.		90	736-0160		Fi-Wash. .530 I.D. x .940 O.D. x .050	
42	714-0388		#61 Hi-Pro Key 3/16 x 5/8" Dia.		91	735-0185		Rubber Wash. .531 I.D. x 1.00 O.D. x .120	
43	736-0119		L-Wash. 5/16" Scr.*		92	736-0192		Fi-Wash. .531 I.D. x .93 O.D. x .090	
44	712-0267		Hex Nut 5/16-18 Thd.*		93	12852		Chute Baffle	N
45	742-0156		26" Blade Ass'y.		94	710-0167		Carriage Bolt 1/4-20 x .50" Lg.*	
46	736-0217		L-Wash. 3/8" Scr. H.D.						
47	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. H.T.						
48	710-0117		Hex Scr. 5/16-24 x 1.00" Lg. H.T.						

(462—Red Flake)

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12451 (462).)

**136-520A**  
**136-525A**



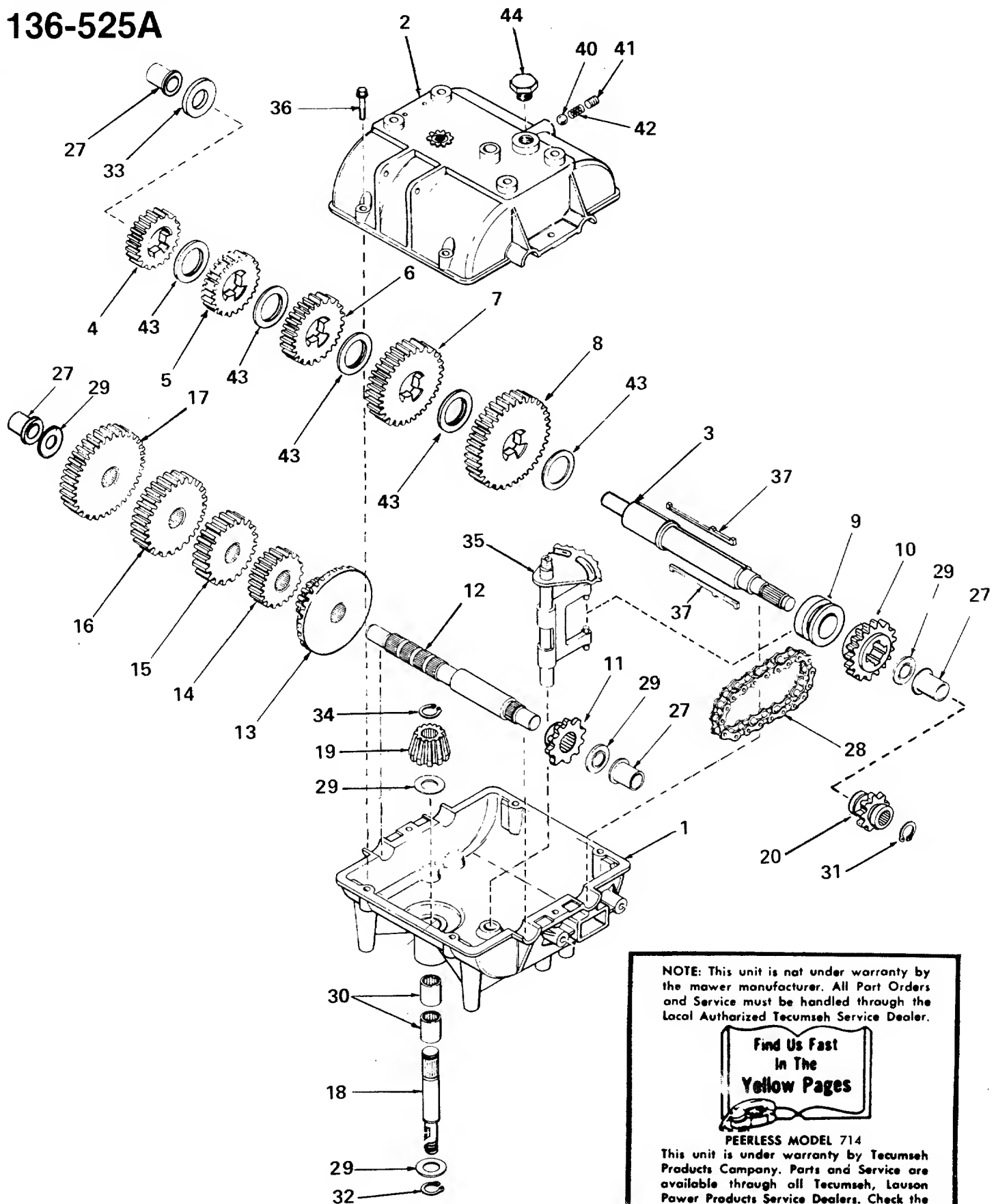
**PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0327**

REF. NO.	PART NO.	QTY REQ'D	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "D" Hole	
3	738-0302	1	Shaft—Long 15.11" Lg.	N
4	736-0188	2	Fl-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	N
6	736-0119	2	L-Wash. 5/16" Scr.*	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00" Lg.*	
8	736-0187	2	Fl-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	713-0162	1	Sprocket—48 Tooth	
13	738-0303	1	Shaft—Short 7.58" Lg.	N



# 136-520A 136-525A

TRANSMISSION PART NO. PEERLESS 714



NOTE: This unit is not under warranty by the mawer manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

**Find Us Fast  
In The  
Yellow Pages**

**PEERLESS MODEL 714**

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

# 136-520A 136-525A

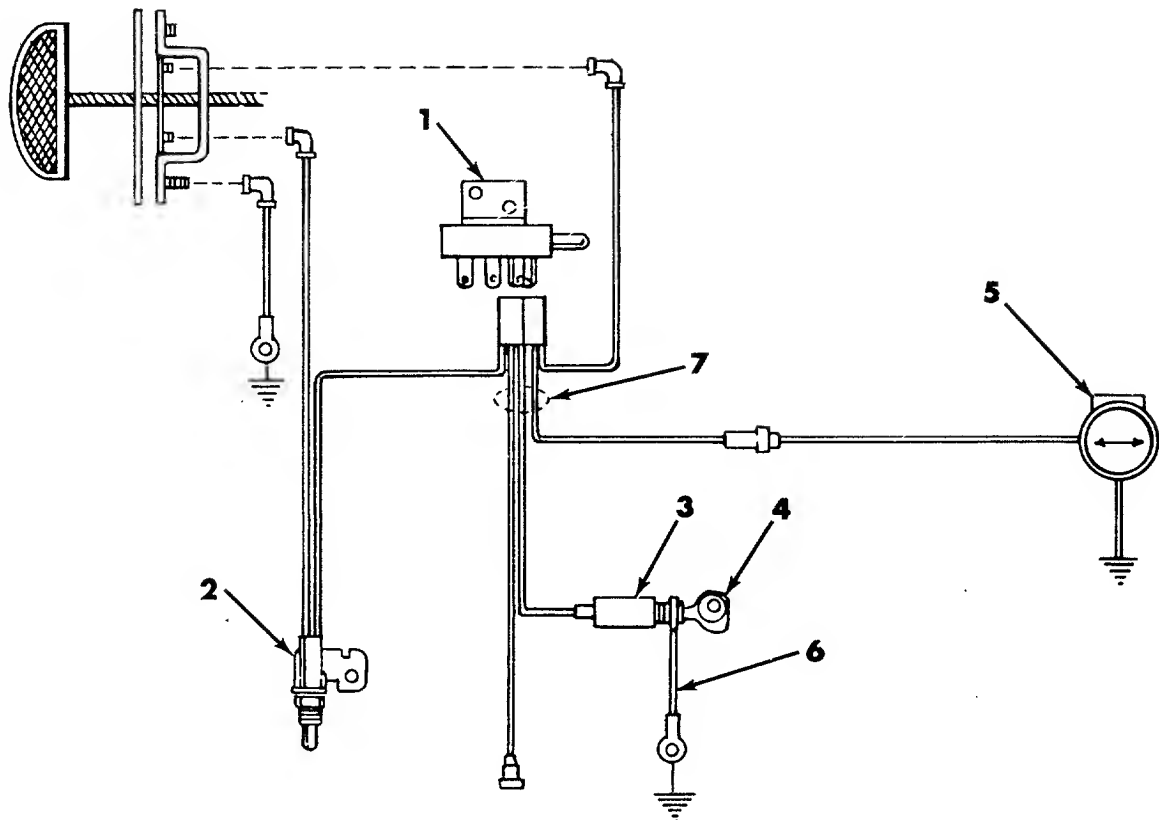
## PARTS LIST FOR PEERLESS MODEL 714 TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION
1	PE-770061	Case, Transmission
2	PE-772070	Cover, Transmission
3	PE-776166	Shaft, Output
4	PE-778121	Gear, Spur (20 Teeth)
5	PE-778122	Gear, Spur (22 Teeth)
6	PE-778123	Gear, Spur (25 Teeth)
7	PE-778124	Gear, Spur (30 Teeth)
8	PE-778125	Gear, Spur (35 Teeth)
9	PE-784266	Collar, Shift
10	PE-786060	Sprocket (14 Teeth)
11	PE-786061	Sprocket (10 Teeth)
12	PE-776134	Shaft, Counter
13	PE-778109	Gear, Bevel (42 Tooth & 15 Tooth spur gear)
14	PE-778126	Gear, Spur (20 Teeth)
15	PE-778127	Gear, Spur (25 Teeth)
16	PE-778128	Gear, Spur (28 Teeth)
17	PE-778129	Gear, Spur (30 Teeth)
18	PE-776140	Shaft, Input
19	PE-778113	Bevel Pinion, Input
20	PE-786049	Sprocket (8 Teeth)
27	PE-780105	Bushing, Flanged
28	PE-786062	Chain, Roller (No. 41 Chain, 22 Links)
29	PE-780072	Race, Thrust
30	PE-780106	Bearing, Needle
31	PE-792072	Ring, Retaining
32	PE-792035	Ring, Retaining
33	PE-780109	Washer
34	PE-788040	Ring, Retaining
35	PE-784271	Rod and Fork Ass'y., Shift
36	PE-792073	Screw, Hex Hd. Taptite, 1/4-20 x 1 1/4
37	PE-792089	Key
40	PE-792077	Ball, Steel, 5/16"
41	PE-792078	Screw, Set, 3/8-16 x 3/8
42	PE-792079	Spring
43	PE-780108	Washer, Thrust
44	PE-792074	Plug

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Find It Fast  
In The  
'Yellow Pages'

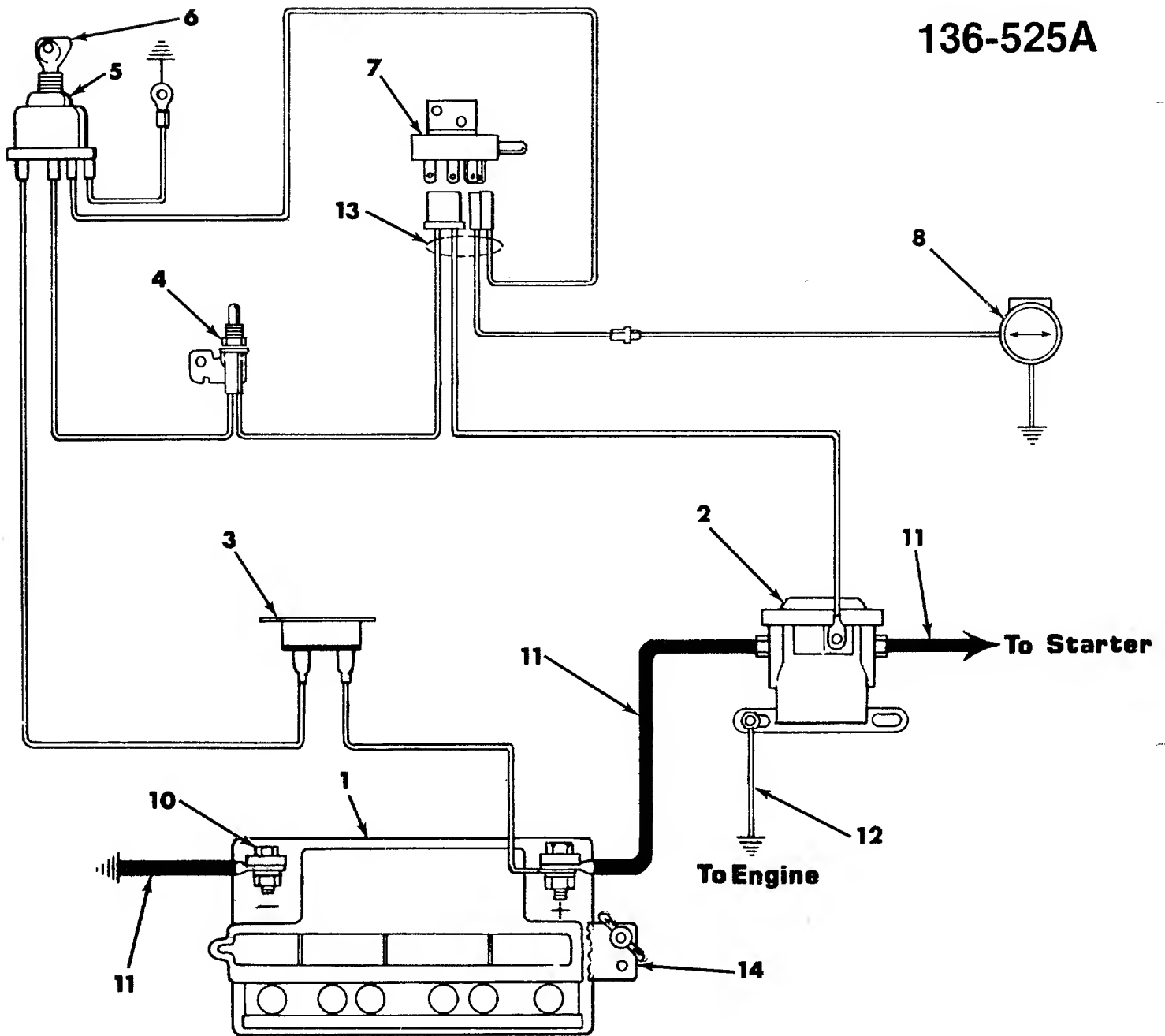




**WIRING DIAGRAM FOR RECOIL START RIDER**

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0465	Safety Switch DPST	
2	725-0269	Safety Switch Black Plunger	
3	725-0266	Recoil Key Switch	
4	725-0128	Key	
5	725-0470 0494	Interlock Switch	
	<del>725-0471</del>	<del>Interlock Bracket and Magnet</del>	<del>omit</del>
6	725-0473	Electric Wire	
7	725-0467	Wire Harness	
8	725-0472	Electric Wire—Engine to Ground (Not Shown)	

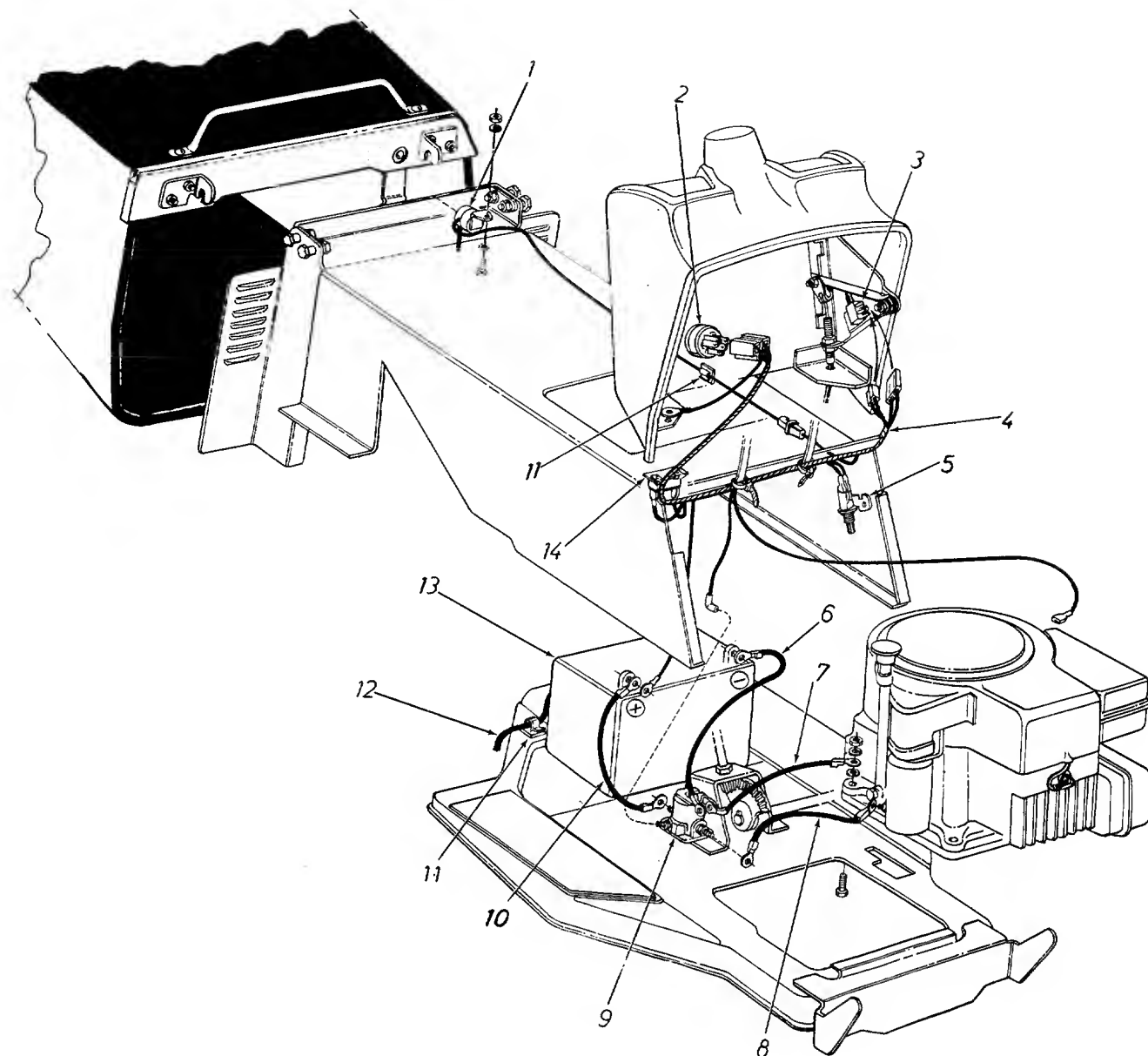
136-525A



WIRING DIAGRAM AND PARTS LIST FOR ELECTRIC START RIDER

REF. NO.	PART NO.	DESCRIPTION	NEW PART	REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0453	Battery		10	710-0252	Hex Hd. Cap Scr. 1/4-20 x .75 Lg.*	
2	725-0270	Solenoid			736-0329	Spring Lockwasher 1/4 Scr.*	
3	725-0459	Circuit Breaker 8 Amp.			712-0287	Hex Nut 1/4-20 Thd.*	
4	725-0268	Safety Switch Black Plunger		11	725-0387	Electric Wire	
5	725-0267	Ignition Switch		12	725-0122	Electric Wire	
6	725-0201	Key for Switch		13	725-0469	Wire Harness	
7	725-0465	Safety Switch DPST		14	12614	Hold Down	
8	725-0494	Interlock Switch			711-0222	Hold Down Rod	
9	725-0156	Charger 1 1/4 Amp. (Not Shown)			712-0113	Wing Nuts 1/4-20 Thd.*	
			N				

# 136-525A



## PARTS LIST FOR MODELS 136-525A

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0494	Interlock Switch	N
2	725-0267	Ignition Switch	
3	725-0465	Safety Switch DPST	
4	725-0469	Wire Harness	
5	725-0268	Safety Switch Black Plunger	
6	725-0387	Electric Wire	
7	725-0122	Electric Wire	
8	725-0387	Electric Wire	
9	725-0270	Solenoid	
10	725-0387	Electric Wire	
11	726-0141	Adjustment Lamp	
12	—	Rubber Tube (Comes with Battery)	
13	725-0453	Manifold Battery	
14	725-0459	Circuit Breaker 8 Amp.	

# TESTING THE SAFETY CIRCUITS ON THE ELECTRIC START RIDER

## CHECK FOR PROPER OPERATION (Grass Catcher Attached)

- A. Depress and lock the clutch in the disengaged position.
- B. Place the Blade Disengagement Lever in the Disengaged position.
- C. Turn the ignition key to the START position.
- D. The starter motor should crank.



### NOTE

If the starter cranks, but the engine does not run, the problem is within the engine (no spark, no fuel, etc.), not with the safety interlock system.

- E. With the engine running, engage the Blade Engagement Lever. The engine should continue to run.
- F. Lift the grass catcher until the magnet on the grass catcher is at least one inch from the magnetic switch located on the rear of the rider. (For identification, the magnetic switch is 1" diameter black plastic.) The engine should stop.
- G. Replace the grass catcher and restart the engine.
- H. Turn the ignition key to the OFF position, the engine should stop.

## ENGINE WILL NOT CRANK (Battery Fully Charged)

1. Check to see that both wires (one large from the solenoid and one small from the harness) are attached to the positive terminal of the battery.
2. Check to see that the small red wire from the harness is attached to the Primary Terminal of the solenoid. The Primary Terminal is the smaller terminal on the solenoid. The solenoid is the black unit located on the side of the steering gear box.
3. Check the positive wire connections for tightness between the positive terminal of the battery and the solenoid and between the solenoid and the engine starter motor.

4. Check the ground wires between the negative terminal of the battery and the frame and between the base of the solenoid and the engine block.



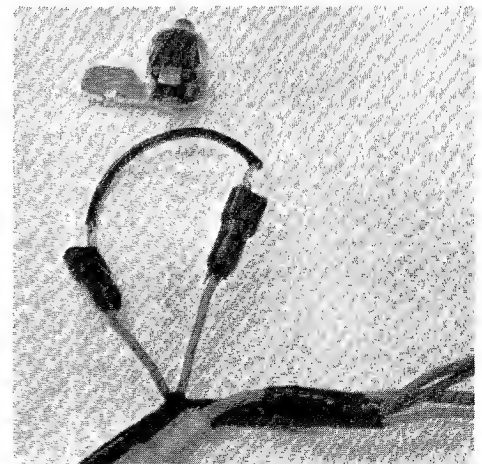
### WARNING

The following test procedures bypasses the safety interlock system. It is only to be used for testing purposes and the safety procedures **MUST** be followed. (Clutch disengaged, blade engagement lever in the disengaged position.)

5. Disconnect the spark plug wire and ground it against the engine block.
6. Disconnect the wire to the primary terminal on the solenoid (small wire).
7. Using an 18 gauge wire, connect one end to the positive terminal of the battery and **TOUCH** the other end to the primary terminal on the solenoid.
8. If the engine **DOES NOT CRANK**:
  - A. Use 6 gauge wire and jump across the two large terminals on the solenoid.
  - B. If the engine cranks, the solenoid is defective and should be replaced.
  - C. If the engine does not crank, the problem is in the starter motor on the engine.

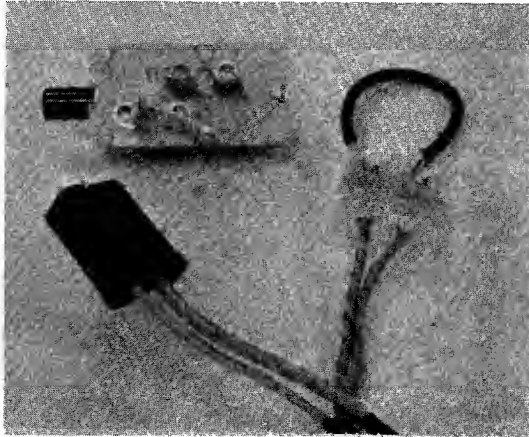
### If The Engine **DOES** Crank:

- A. Unplug the safety switch on the clutch and jump the two connectors. The blade engagement lever should be in the disengaged position. Turn the ignition key to the START position. If the engine cranks, replace the switch.

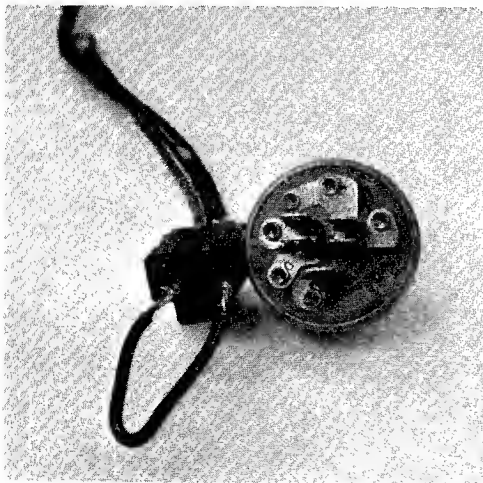




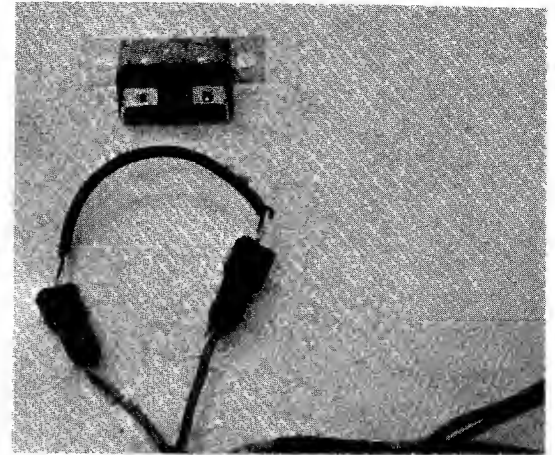
- B. Unplug the two red wires on the blade engagement switch on the normally open circuit. Use the 18 gauge wire to jump the two connectors. Turn the ignition switch to the start position and depress the clutch pedal to activate the clutch switch. If the engine cranks, replace the switch.



- C. Lock the clutch in the disengaged position. Place the blade engagement lever in the engaged position. Use a piece of 18 gauge wire to jump the two terminals shown in the sketch. Engage the blade engagement lever. If the engine cranks, replace the ignition switch.



- D. Unplug the circuit breaker. Jump between the two terminals. Depress the clutch pedal, place the blade engagement lever in the disengaged position, turn the ignition switch to the START position. If the engine cranks, replace the circuit breaker.
- E. If the engine fails to crank after testing the above components, use the 18 gauge wire to check continuity of the wire between the components. Replace the defective wire or the wire harness.



## ENGINE SHUTS OFF

### When The Blade Engagement Lever Is Engaged.

- A. Check the position of the magnet on the grass catcher. The magnet should touch the magnetic switch when the catcher is attached to the rider. The magnet should be parallel to the arrow on the magnetic switch.
- B. Disconnect the brown wire from the magnetic switch to the harness. If the engine keeps running with the blade engagement lever engaged, replace the magnetic switch and the magnet.

## Circuit Breaker

The wire harness contains a circuit breaker that will shut off in the event of a short circuit or an overload on the electrical system. The circuit breaker will reset itself in approximately 20 seconds. If the circuit breaker continues to open and close, disconnect the Negative (ground) wire from the battery. Correct the reason for the circuit breaker opening and closing before connecting the ground wire on the battery.

## Testing the Safety Circuits on the Recoil Start Rider Operation

1. Depress and lock the clutch pedal in the disengaged position.
2. Place the blade engagement lever in the disengaged position.
3. Turn the ignition key to the ON position.
4. Pull the recoil starter handle out sharply until the engine starts.
5. Return the recoil starter handle to the dashboard and lock it in position by turning it a quarter turn.

6. With the grass catcher attached and in the proper position, engage the blade engagement lever. The engine should continue to run.
7. Lift the grass catcher until the magnet on the grass catcher is at least one inch away from the magnetic switch on the rider. The engine should stop.
8. Return the grass catcher to the operating position and restart the engine.
9. Release the clutch. The engine should continue to run.
10. Turn the ignition key to the OFF position. The engine should shut off.
11. With the grass catcher removed from the rider, the clutch pedal depressed and locked out and the ignition key in the ON position, the engine should not start when the recoil starter handle is pulled.

#### **Testing Procedures**

1. Check the two screws on the spring in back of the recoil starter handle. The screws must be insulated from the spring with the fiber washers. Use a continuity tester.
2. Examine all wiring. If the insulation is worn and the bare wire touches the frame of the rider, the engine will not start.
3. Examine all terminals to see that they are tight.
4. Repair any broken wires.
5. Check to see that all terminals are plugged in to their proper place.

6. If the engine will not start, remove the yellow wire from the harness to the engine.



The following test procedure bypasses the safety interlock system. It is only used for testing purposes and the safety procedures **MUST** be followed. (Clutch disengaged and the blade engagement lever in the disengaged position.)

7. If the engine will not start with the yellow wire disconnected the problem is with the engine (no spark, no fuel, etc.) not with the safety interlock system.
8. If the engine starts with the yellow wire disconnected and will not start with it connected the problem is in the interlock system.

#### **Engine Shuts Off When The Blade Engagement Lever Is Engaged.**

1. Check the position of the magnet on the grass catcher. The magnet should touch the magnetic switch when the catcher is attached to the rider. The magnet should be parallel to the arrow on the magnetic switch.
2. Disconnect the brown wire from the magnetic switch to the harness. If the engine keeps running with the blade engagement lever engaged, replace the magnetic switch and the magnet.

# PARTS INFORMATION

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

<b>ALABAMA</b>	<b>BIRMINGHAM</b>	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
<b>ARKANSAS</b>	<b>NORTH LITTLE ROCK</b>	
Sutton's Lawn Mower Shop	Rt. 4, Box 368	72117
	<b>FORT SMITH</b>	
Mity Mite Motors, Inc.	2515 Towsan Ave.	72901
<b>CALIFORNIA</b>	<b>SAN BERNARDINO</b>	
Lawn Mower Supply Co.	25608 E. Baseline	92410
	<b>SAN FRANCISCO</b>	
J.W. Jewett Co.	981 Folsom St.	94107
	<b>SACRAMENTO</b>	
Luttig & Severson	2030 28th St.	95818
<b>COLORADO</b>	<b>DENVER</b>	
South Denver Lawn Equip.	527 West Evans	80223
<b>CONNECTICUT</b>	<b>SUFFIELD</b>	
The Janes & Ramsey Co.	850 Thompsonville Rd.	06078
<b>FLORIDA</b>	<b>JACKSONVILLE</b>	
Radco Distributors	2403 Market St.	32206
	<b>CORAL GABLES</b>	
Moz-All of Florida, Inc.	365 Greco Ave.	33146
<b>GEORGIA</b>	<b>EAST POINT</b>	
East Point Cycle & Key	2834 Church St.	30344
<b>ILLINOIS</b>	<b>LYONS</b>	
Keen Edge Co.	8615 Ogden Ave.	60534
<b>INDIANA</b>	<b>ELKHART</b>	
Parts & Sales Inc.	2101 Industrial Pkwy.	46514
	<b>CORYDON</b>	
Brown Equip. Dist., Inc.	110 Beech St.	47112
<b>IOWA</b>	<b>DUBUQUE</b>	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
<b>KANSAS</b>	<b>WICHITA</b>	
Hixan, Inc.	3030 Mascot	67204
<b>LOUISIANA</b>	<b>NEW ORLEANS</b>	
Suhren Engine Co.	8330 Earhart Blvd.	70118
<b>MARYLAND</b>	<b>TAKOMA PARK</b>	
Center Supply Co.	6867 New Hampshire Ave.	20012
<b>MASSACHUSETTS</b>	<b>SPRINGFIELD</b>	
Mortan B. Collins Co.	300 Birnie Ave.	01107
<b>MICHIGAN</b>	<b>MOUNT CLEMENS</b>	
Power Equipment Dist.	36463 South Gratiot	48043
	<b>LANSING</b>	
Lorenz Service Co.	2500 S. Pennsylvania	48900
<b>MINNESOTA</b>	<b>MINNETONKA</b>	
Hance Distributing Inc.	11212 Wayzata Blvd.	55343
<b>MISSISSIPPI</b>	<b>BILOXI</b>	
Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
<b>MISSOURI</b>	<b>KANSAS CITY</b>	
Automotive Equip. Service	3117 Halmes St.	64109
	<b>ST. LOUIS</b>	
Henzler, Inc.	2015 Lemay Ferry Rd.	63125
<b>NEBRASKA</b>	<b>OMAHA</b>	
R.P.W., Inc.	7402 "L" St.	68127

## BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines Gasoline*, Briggs & Stratton or Tecumseh Lausan

<b>NEW YORK</b>	<b>CARTHAGE</b>	
Gamble Dist., Inc.	West End Ave.	13619
	<b>SYRACUSE</b>	
Kimber's, Inc.	115 N. Geddes St.	13204
	<b>ROCHESTER</b>	
Henry W. O'Neil & Associates	410 N. Goodman St.	14609
<b>NORTH CAROLINA</b>	<b>GREENSBORO</b>	
Dixie Sales Company	327 Battleground Ave.	27402
	<b>GOLDSBORO</b>	
Smith Hardware Co.	515 N. George St.	27530
<b>OHIO</b>	<b>WADSWORTH</b>	
National Central	687 Seville Rd.	44281
	<b>CLEVELAND</b>	
Bleckrie, Inc.	7900 Lorain Ave.	44117
	<b>CARROL</b>	
Stebe's Mid-State Mower Supply	Box 366	44117
	<b>WILLARD</b>	
Sunshine Wholesale Tire Outlet	Route 224	44890
	<b>MANSFIELD</b>	
McClure Lawn & Garden Supply	1114 Lexington Ave.	44893
<b>OKLAHOMA</b>	<b>MUSKOGEE</b>	
Victory Motors, Inc.	605 S. Cherokee	74461
	<b>ADA</b>	
Ada Auto Supply	301 E. 12th St.	74820
<b>OREGON</b>	<b>PORTLAND</b>	
Kentan Supply Co.	8216 N. Denver Ave.	97217
<b>PENNSYLVANIA</b>	<b>LANCASTER</b>	
Raub Supply Co.	James & Mulberry Sts.	17604
	<b>PITTSBURGH</b>	
Bluemant Co.	11125 Frankstown Rd.	15235
<b>TENNESSEE</b>	<b>KNOXVILLE</b>	
Master Repair Service	2423 Broadway, N.E.	37917
	<b>MEMPHIS</b>	
Memphis Cycle & Supply Co.	421 Monroe Ave.	38103
American Sales & Service, Inc.	1922 Lynnbrook	38117
<b>TEXAS</b>	<b>DALLAS</b>	
Marr Brothers, Inc.	423 E. Jefferson	75203
	<b>HOUSTON</b>	
Bullard Supply Co.	2409 Commerce St.	77003
	<b>SAN ANTONIO</b>	
Catta & Putty, Inc.	P.O. Box 2408	78206
	<b>FORT WORTH</b>	
Wadsan Sales Corp.	1702 N. Sylvania	76111
<b>UTAH</b>	<b>SALT LAKE CITY</b>	
A-1 Engine & Mower Co.	437 E. 9th St.	84111
<b>VERMONT</b>	<b>BURLINGTON</b>	
Vermont Appliance Co.	44 Lakeside Ave.	05401
<b>VIRGINIA</b>	<b>RICHMOND</b>	
RBI Corp.	963 Myers St.	23260
<b>WASHINGTON</b>	<b>SEATTLE</b>	
Bailey's Rebuild, Inc.	1325 E. Madison St.	98102
<b>WEST VIRGINIA</b>	<b>CHARLESTON</b>	
Young's, Inc.	233 Virginia St., E.	25301
<b>WISCONSIN</b>	<b>APPLETON</b>	
Automotive Supply Co.	123 S. Linwood Ave.	54911

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.